

Texas Commission on Environmental Quality

Edwards Aquifer Application Cover Page

Our Review of Your Application

The Edwards Aquifer Program staff conducts an administrative and technical review of all applications. The turnaround time for administrative review can be up to 30 days as outlined in 30 TAC 213.4(e). Generally administrative completeness is determined during the intake meeting or within a few days of receipt. The turnaround time for technical review of an administratively complete Edwards Aquifer application is 90 days as outlined in 30 TAC 213.4(e). Please know that the review and approval time is directly impacted by the quality and completeness of the initial application that is received. In order to conduct a timely review, it is imperative that the information provided in an Edwards Aquifer application include final plans, be accurate, complete, and in compliance with [30 TAC 213](#).

Administrative Review

1. [Edwards Aquifer applications](#) must be deemed administratively complete before a technical review can begin. To be considered administratively complete, the application must contain completed forms and attachments, provide the requested information, and meet all the site plan requirements. The submitted application and plan sheets should be final plans. Please submit one full-size set of plan sheets with the original application, and half-size sets with the additional copies.

To ensure that all applicable documents are included in the application, the program has developed tools to guide you and web pages to provide all forms, checklists, and guidance. Please visit the below website for assistance: <http://www.tceq.texas.gov/field/eapp>.

2. This Edwards Aquifer Application Cover Page form (certified by the applicant or agent) must be included in the application and brought to the administrative review meeting.
3. Administrative reviews are scheduled with program staff who will conduct the review. Applicants or their authorized agent should call the appropriate regional office, according to the county in which the project is located, to schedule a review. The average meeting time is one hour.
4. In the meeting, the application is examined for administrative completeness. Deficiencies will be noted by staff and emailed or faxed to the applicant and authorized agent at the end of the meeting, or shortly after. Administrative deficiencies will cause the application to be deemed incomplete and returned.

An appointment should be made to resubmit the application. The application is re-examined to ensure all deficiencies are resolved. The application will only be deemed administratively complete when all administrative deficiencies are addressed.

5. If an application is received by mail, courier service, or otherwise submitted without a review meeting, the administrative review will be conducted within 30 days. The applicant and agent will be contacted with the results of the administrative review. If the application is found to be administratively incomplete, it can be retrieved from the regional office or returned by regular mail. If returned by mail, the regional office may require arrangements for return shipping.
6. If the geologic assessment was completed before October 1, 2004 and the site contains “possibly sensitive” features, the assessment must be updated in accordance with the *Instructions to Geologists* (TCEQ-0585 Instructions).

Technical Review

1. When an application is deemed administratively complete, the technical review period begins. The regional office will distribute copies of the application to the identified affected city, county, and groundwater conservation district whose jurisdiction includes the subject site. These entities and the public have 30 days to provide comments on the application to the regional office. All comments received are reviewed by TCEQ.
2. A site assessment is usually conducted as part of the technical review, to evaluate the geologic assessment and observe existing site conditions. The site must be accessible to our staff. The site boundaries should be

clearly marked, features identified in the geologic assessment should be flagged, roadways marked and the alignment of the Sewage Collection System and manholes should be staked at the time the application is submitted. If the site is not marked the application may be returned.

3. We evaluate the application for technical completeness and contact the applicant and agent via Notice of Deficiency (NOD) to request additional information and identify technical deficiencies. There are two deficiency response periods available to the applicant. There are 14 days to resolve deficiencies noted in the first NOD. If a second NOD is issued, there is an additional 14 days to resolve deficiencies. If the response to the second notice is not received, is incomplete or inadequate, or provides new information that is incomplete or inadequate, the application must be withdrawn or will be denied. Please note that because the technical review is underway, whether the application is withdrawn or denied **the application fee will be forfeited**.
4. The program has 90 calendar days to complete the technical review of the application. If the application is technically adequate, such that it complies with the Edwards Aquifer rules, and is protective of the Edwards Aquifer during and after construction, an approval letter will be issued. Construction or other regulated activity may not begin until an approval is issued.

Mid-Review Modifications

It is important to have final site plans prior to beginning the permitting process with TCEQ to avoid delays.

Occasionally, circumstances arise where you may have significant design and/or site plan changes after your Edwards Aquifer application has been deemed administratively complete by TCEQ. This is considered a "Mid-Review Modification". Mid-Review Modifications may require redistribution of an application that includes the proposed modifications for public comment.

If you are proposing a Mid-Review Modification, two options are available:

- If the technical review has begun your application can be denied/withdrawn, your fees will be forfeited, and the plan will have to be resubmitted.
- TCEQ can continue the technical review of the application as it was submitted, and a modification application can be submitted at a later time.

If the application is denied/withdrawn, the resubmitted application will be subject to the administrative and technical review processes and will be treated as a new application. The application will be redistributed to the affected jurisdictions.

Please contact the regional office if you have questions. If your project is located in Williamson, Travis, or Hays County, contact TCEQ's Austin Regional Office at 512-339-2929. If your project is in Comal, Bexar, Medina, Uvalde, or Kinney County, contact TCEQ's San Antonio Regional Office at 210-490-3096

Please fill out all required fields below and submit with your application.

1. Regulated Entity Name: Hill Country Forensics					2. Regulated Entity No.:				
3. Customer Name: Forensic Spaces LLC					4. Customer No.:				
5. Project Type: (Please circle/check one)	<input checked="" type="radio"/> New	Modification			Extension		Exception		
6. Plan Type: (Please circle/check one)	<input checked="" type="radio"/> WPAP	<input type="radio"/> CZP	<input type="radio"/> SCS	<input type="radio"/> UST	<input type="radio"/> AST	<input type="radio"/> EXP	<input type="radio"/> EXT	Technical Clarification	Optional Enhanced Measures
7. Land Use: (Please circle/check one)	<input type="radio"/> Residential	<input checked="" type="radio"/> Non-residential				8. Site (acres):		2.79	
9. Application Fee:	\$4,000		10. Permanent BMP(s):			Batch Detention			
11. SCS (Linear Ft.):	n/a		12. AST/UST (No. Tanks):			n/a			
13. County:	Williamson		14. Watershed:			Berry Creek (San Gabriel River)			

Application Distribution

Instructions: Use the table below to determine the number of applications required. One original and one copy of the application, plus additional copies (as needed) for each affected incorporated city, county, and groundwater conservation district are required. Linear projects or large projects, which cross into multiple jurisdictions, can require additional copies. Refer to the “Texas Groundwater Conservation Districts within the EAPP Boundaries” map found at:

http://www.tceq.texas.gov/assets/public/compliance/field_ops/eapp/EAPP%20GWCD%20map.pdf

For more detailed boundaries, please contact the conservation district directly.

Austin Region			
County:	Hays	Travis	Williamson
Original (1 req.)	—	—	X
Region (1 req.)	—	—	X
County(ies)	—	—	X
Groundwater Conservation District(s)	<input type="checkbox"/> Edwards Aquifer Authority <input type="checkbox"/> Barton Springs/ Edwards Aquifer <input type="checkbox"/> Hays Trinity <input type="checkbox"/> Plum Creek	<input type="checkbox"/> Barton Springs/ Edwards Aquifer	NA
City(ies) Jurisdiction	<input type="checkbox"/> Austin <input type="checkbox"/> Buda <input type="checkbox"/> Dripping Springs <input type="checkbox"/> Kyle <input type="checkbox"/> Mountain City <input type="checkbox"/> San Marcos <input type="checkbox"/> Wimberley <input type="checkbox"/> Woodcreek	<input type="checkbox"/> Austin <input type="checkbox"/> Bee Cave <input type="checkbox"/> Pflugerville <input type="checkbox"/> Rollingwood <input type="checkbox"/> Round Rock <input type="checkbox"/> Sunset Valley <input type="checkbox"/> West Lake Hills	<input type="checkbox"/> Austin <input type="checkbox"/> Cedar Park <input type="checkbox"/> Florence <input checked="" type="checkbox"/> Georgetown (ETJ) <input type="checkbox"/> Jerrell <input type="checkbox"/> Leander <input type="checkbox"/> Liberty Hill <input type="checkbox"/> Pflugerville <input type="checkbox"/> Round Rock

San Antonio Region					
County:	Bexar	Comal	Kinney	Medina	Uvalde
Original (1 req.)	—	—	—	—	—
Region (1 req.)	—	—	—	—	—
County(ies)	—	—	—	—	—
Groundwater Conservation District(s)	<input type="checkbox"/> Edwards Aquifer Authority <input type="checkbox"/> Trinity-Glen Rose	<input type="checkbox"/> Edwards Aquifer Authority	<input type="checkbox"/> Kinney	<input type="checkbox"/> EAA <input type="checkbox"/> Medina	<input type="checkbox"/> EAA <input type="checkbox"/> Uvalde
City(ies) Jurisdiction	<input type="checkbox"/> Castle Hills <input type="checkbox"/> Fair Oaks Ranch <input type="checkbox"/> Helotes <input type="checkbox"/> Hill Country Village <input type="checkbox"/> Hollywood Park <input type="checkbox"/> San Antonio (SAWS) <input type="checkbox"/> Shavano Park	<input type="checkbox"/> Bulverde <input type="checkbox"/> Fair Oaks Ranch <input type="checkbox"/> Garden Ridge <input type="checkbox"/> New Braunfels <input type="checkbox"/> Schertz	NA	<input type="checkbox"/> San Antonio ETJ (SAWS)	NA

I certify that to the best of my knowledge, that the application is complete and accurate. This application is hereby submitted to TCEQ for administrative review and technical review.

Landon Cole Allen

Print Name of Customer/Authorized Agent

Cole Allen

07-16-2024

Signature of Customer/Authorized Agent

Date

****FOR TCEQ INTERNAL USE ONLY****

Date(s) Reviewed:		Date Administratively Complete:	
Received From:		Correct Number of Copies:	
Received By:		Distribution Date:	
EAPP File Number:		Complex:	
Admin. Review(s) (No.):		No. AR Rounds:	
Delinquent Fees (Y/N):		Review Time Spent:	
Lat./Long. Verified:		SOS Customer Verification:	
Agent Authorization Complete/Notarized (Y/N):		Fee Check:	Payable to TCEQ (Y/N):
Core Data Form Complete (Y/N):			Signed (Y/N):
Core Data Form Incomplete Nos.:			Less than 90 days old (Y/N):

General Information Form

Texas Commission on Environmental Quality

For Regulated Activities on the Edwards Aquifer Recharge and Transition Zones and Relating to 30 TAC §213.4(b) & §213.5(b)(2)(A), (B) Effective June 1, 1999

To ensure that the application is administratively complete, confirm that all fields in the form are complete, verify that all requested information is provided, consistently reference the same site and contact person in all forms in the application, and ensure forms are signed by the appropriate party.

Note: Including all the information requested in the form and attachments contributes to more streamlined technical reviews.

Signature

To the best of my knowledge, the responses to this form accurately reflect all information requested concerning the proposed regulated activities and methods to protect the Edwards Aquifer. This **General Information Form** is hereby submitted for TCEQ review. The application was prepared by:

Print Name of Customer/Agent: Landon Cole Allen, P.E.

Date: 2024-06-27

Signature of Customer/Agent:



Project Information

1. Regulated Entity Name: Hill Country Forensics
2. County: Williamson
3. Stream Basin: Berry Creek (tributary to San Gabriel River)
4. Groundwater Conservation District (If applicable): n/a
5. Edwards Aquifer Zone:

- ☒ Recharge Zone
☐ Transition Zone

6. Plan Type:

- ☒ WPAP
☐ SCS
☐ Modification

- ☐ AST
☐ UST
☐ Exception Request

7. Customer (Applicant):

Contact Person: Dr. Satish Chundru

Entity: Forensic Spaces LLC

Mailing Address: 12160 W. Parmer Lane, Suite 130-108

City, State: Cedar Park, TX

Zip: 78613

Telephone: 305-239-8081

FAX: _____

Email Address: satchundru@yahoo.com

8. Agent/Representative (If any):

Contact Person: Landon Cole Allen, P.E.

Entity: Akron Consulting LLC

Mailing Address: 431 N Center St

City, State: Longview, TX

Zip: 75601

Telephone: 903-452-0637

FAX: _____

Email Address: colea@akron-consulting.com

9. Project Location:

- ☐ The project site is located inside the city limits of _____.
- ☒ The project site is located outside the city limits but inside the ETJ (extra-territorial jurisdiction) of Georgetown, Tx.
- ☐ The project site is not located within any city's limits or ETJ.

10. ☐ The location of the project site is described below. The description provides sufficient detail and clarity so that the TCEQ's Regional staff can easily locate the project and site boundaries for a field investigation.

The project is located at 136 Market St in Georgetown, TX, and is currently a vacant lot on the south side of Market St in between Lone Star Communications and The Nine Minds Group.

11. ☒ **Attachment A – Road Map.** A road map showing directions to and the location of the project site is attached. The project location and site boundaries are clearly shown on the map.
12. ☒ **Attachment B - USGS / Edwards Recharge Zone Map.** A copy of the official 7 ½ minute USGS Quadrangle Map (Scale: 1" = 2000') of the Edwards Recharge Zone is attached. The map(s) clearly show:
- ☒ Project site boundaries.
 - ☒ USGS Quadrangle Name(s).
 - ☒ Boundaries of the Recharge Zone (and Transition Zone, if applicable).
 - ☒ Drainage path from the project site to the boundary of the Recharge Zone.
13. ☒ **The TCEQ must be able to inspect the project site or the application will be returned.** Sufficient survey staking is provided on the project to allow TCEQ regional staff to locate the boundaries and alignment of the regulated activities and the geologic or manmade features noted in the Geologic Assessment.

☒ Survey staking will be completed by this date: 09/30/2024

14. ☒ **Attachment C – Project Description.** Attached at the end of this form is a detailed narrative description of the proposed project. The project description is consistent throughout the application and contains, at a minimum, the following details:

- ☒ Area of the site
- ☒ Offsite areas
- ☒ Impervious cover
- ☒ Permanent BMP(s)
- ☒ Proposed site use
- ☒ Site history
- ☒ Previous development
- ☒ Area(s) to be demolished

15. Existing project site conditions are noted below:

- ☐ Existing commercial site
- ☐ Existing industrial site
- ☐ Existing residential site
- ☒ Existing paved and/or unpaved roads
- ☐ Undeveloped (Cleared)
- ☒ Undeveloped (Undisturbed/Uncleared)
- ☐ Other: _____

Prohibited Activities

16. ☒ I am aware that the following activities are prohibited on the Recharge Zone and are not proposed for this project:

- (1) Waste disposal wells regulated under 30 TAC Chapter 331 of this title (relating to Underground Injection Control);
- (2) New feedlot/concentrated animal feeding operations, as defined in 30 TAC §213.3;
- (3) Land disposal of Class I wastes, as defined in 30 TAC §335.1;
- (4) The use of sewage holding tanks as parts of organized collection systems; and
- (5) New municipal solid waste landfill facilities required to meet and comply with Type I standards which are defined in §330.41(b), (c), and (d) of this title (relating to Types of Municipal Solid Waste Facilities).
- (6) New municipal and industrial wastewater discharges into or adjacent to water in the state that would create additional pollutant loading.

17. ☒ I am aware that the following activities are prohibited on the Transition Zone and are not proposed for this project:

- (1) Waste disposal wells regulated under 30 TAC Chapter 331 (relating to Underground Injection Control);

- (2) Land disposal of Class I wastes, as defined in 30 TAC §335.1; and
- (3) New municipal solid waste landfill facilities required to meet and comply with Type I standards which are defined in §330.41 (b), (c), and (d) of this title.

Administrative Information

18. The fee for the plan(s) is based on:

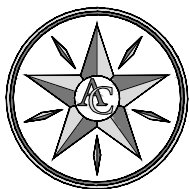
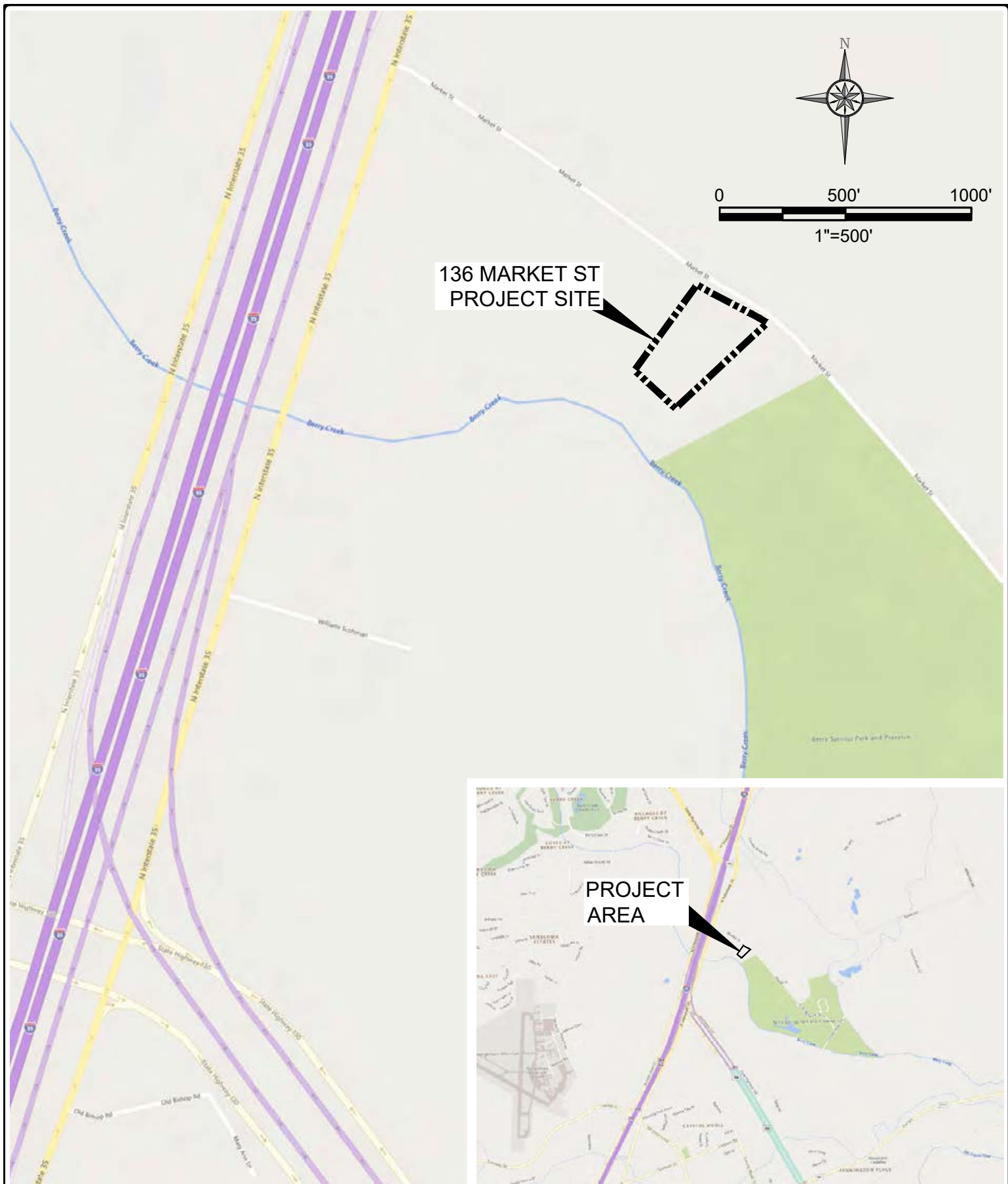
- ☒ For a Water Pollution Abatement Plan or Modification, the total acreage of the site where regulated activities will occur.
- ☐ For an Organized Sewage Collection System Plan or Modification, the total linear footage of all collection system lines.
- ☐ For a UST Facility Plan or Modification or an AST Facility Plan or Modification, the total number of tanks or piping systems.
- ☐ A request for an exception to any substantive portion of the regulations related to the protection of water quality.
- ☐ A request for an extension to a previously approved plan.

19. ☒ Application fees are due and payable at the time the application is filed. If the correct fee is not submitted, the TCEQ is not required to consider the application until the correct fee is submitted. Both the fee and the Edwards Aquifer Fee Form have been sent to the Commission's:

- ☐ TCEQ cashier
- ☒ Austin Regional Office (for projects in Hays, Travis, and Williamson Counties)
- ☐ San Antonio Regional Office (for projects in Bexar, Comal, Kinney, Medina, and Uvalde Counties)

20. ☒ Submit one (1) original and one (1) copy of the application, plus additional copies as needed for each affected incorporated city, groundwater conservation district, and county in which the project will be located. The TCEQ will distribute the additional copies to these jurisdictions. The copies must be submitted to the appropriate regional office.

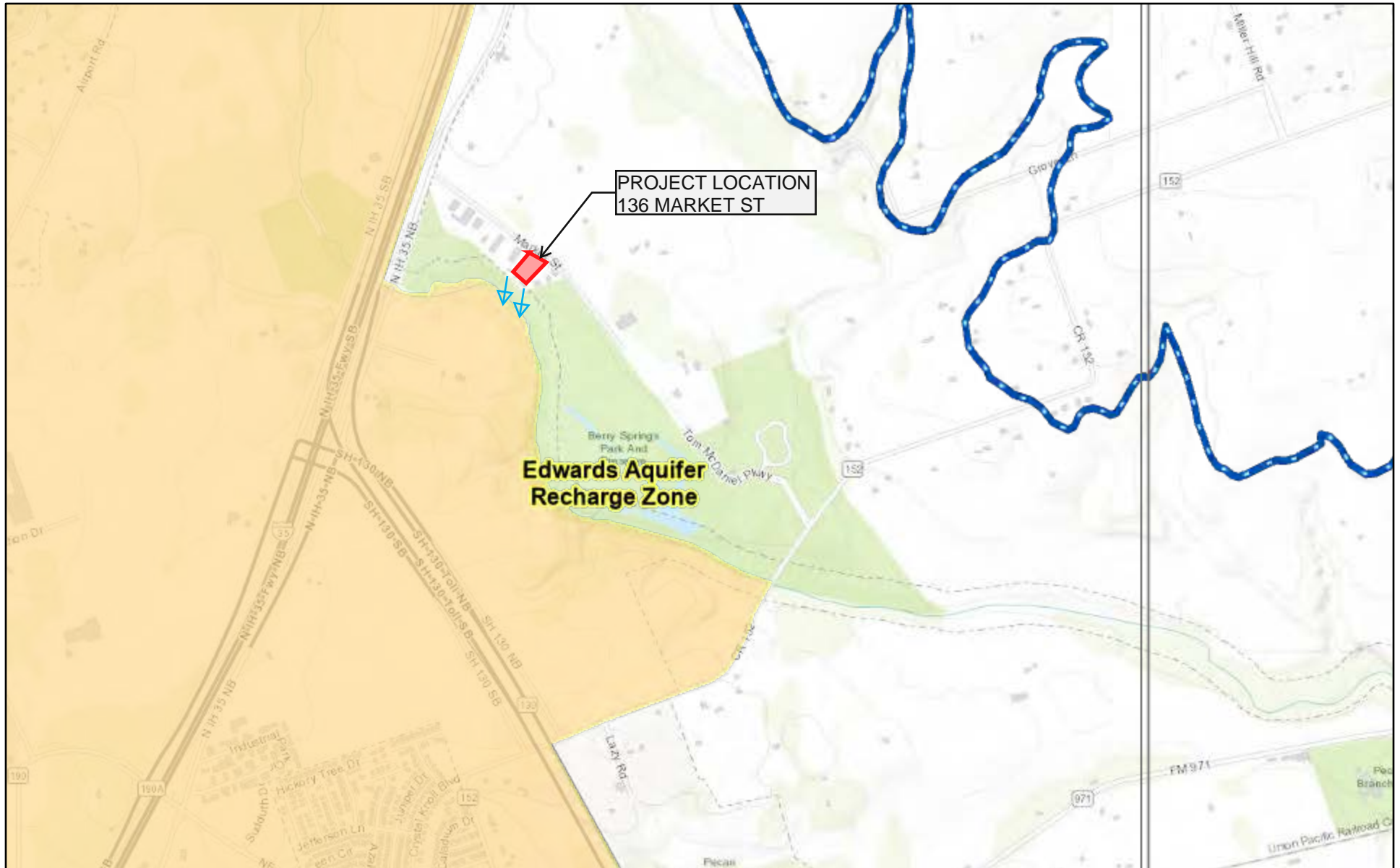
21. ☒ No person shall commence any regulated activity until the Edwards Aquifer Protection Plan(s) for the activity has been filed with and approved by the Executive Director.



AKRON CONSULTING, LLC.
431 N. CENTER ST.
LONGVIEW, TX 75601
TBPE Firm Reg. # 14014
903-720-4822
www.akron-consulting.com

TCEQ-0587
ATTACHMENT A
ROAD MAP

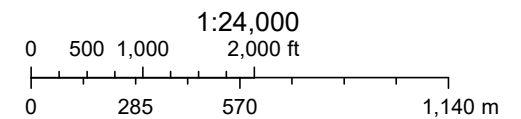
Attachment B: Edwards Aquifer Map



6/27/2024, 5:12:34 PM

- Edwards Aquifer Label
- Edwards Aquifer Boundary
- Edwards Aquifer Boundary central line
- City/Place
- TX Counties
- 7.5 Minute Quad Grid

TCEQ_EDWARDS_OFFICIAL_MAPS



County of Williamson, Texas Parks & Wildlife, Esri, HERE, Garmin, INCREMENT P, USGS, METI/NASA, EPA, USDA, TCEQ

Web AppBuilder for ArcGIS

County of Williamson, Texas Parks & Wildlife, Esri, HERE, Garmin, INCREMENT P, USGS, METI/NASA, EPA, USDA | TCEQ |

TCEQ FORM 0587
ATTACHMENT C – PROJECT DESCRIPTION

Hill Country Forensics is a commercial development on a 2.788 acre lot located in the ETJ of Georgetown, TX. The existing site is mostly undeveloped land, with a gravel drive that loops through the tract. There is also a small pole barn on the site. Based on historical aerials, it appears that the tract may have been used as a lay down yard or storage area by the previous owner. The gravel drive and pole barn will be demolished as part of the project.

The proposed development consists of a 10,267 sf building, associated parking, sidewalks, curb, dumpster enclosure, covered parking area, and a fire lane. Although the site is laid out to accommodate a future shell building, the shell building is not a part of this scope. For calculation purposes, the total existing impervious area was considered 0 since the pole barn was negligible and to be conservative. As part of the proposed development, there is construction in the ROW (driveway, sidewalk, utilities) that is included in the project site area, and not considered offsite. The total site area is 2.94 acres. The total proposed impervious area within the total site is 0.88 acres (29.9% impervious).

The property drains as overland flow to the southern portion of the property, and surface drains into the Berry Springs Park and Preserve, where the stormwater enters into Berry Creek. As mentioned previously, the only offsite area that drains through the property consists of a small portion of the ROW (0.15 acres) along market street. Since there is construction within the ROW as part of this project, that area is considered a part of the total site area.

During construction, all stormwater will be treated with temporary BMP's before leaving the site. Temporary BMP's for this project consist of silt fence, construction entrance/exit, concrete washout pit, and rock berms. All areas not proposed with impervious cover will be revegetated after construction is completed.

Batch Detention is the permanent BMP for TSS removal for this site. A SmartPond Valve from Construction Eco Services is specified as the batch detention pond outlet controller. Construction plans and TSS removal calculations are included in the application package for review. Treated sediment capacity was calculated in accordance with TCEQ regulatory guidance 348.

Geologic Assessment

Texas Commission on Environmental Quality

For Regulated Activities on The Edwards Aquifer Recharge/transition Zones and Relating to 30 TAC §213.5(b)(3), Effective June 1, 1999

To ensure that the application is administratively complete, confirm that all fields in the form are complete, verify that all requested information is provided, consistently reference the same site and contact person in all forms in the application, and ensure forms are signed by the appropriate party.

Note: Including all the information requested in the form and attachments contributes to more streamlined technical reviews.

Signature

To the best of my knowledge, the responses to this form accurately reflect all information requested concerning the proposed regulated activities and methods to protect the Edwards Aquifer. My signature certifies that I am qualified as a geologist as defined by 30 TAC Chapter 213.

Print Name of Geologist: M. Kevin Denson

Telephone: 512 442-1122

Date: April 19, 2024

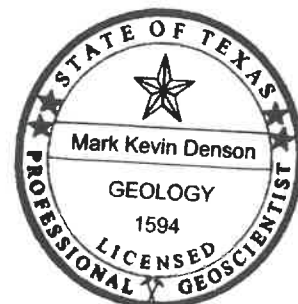
Fax: 512-442-1181

Representing: Terracon Consultants, Inc. (Name of Company and TBPG or TBPE registration number)

Signature of Geologist:



Regulated Entity Name: 136 Market Street, Georgetown, Williamson County, TX



Project Information

1. Date(s) Geologic Assessment was performed: April 4, 2024

2. Type of Project:

☒ WPAP
☐ SCS

☐ AST
☐ UST

3. Location of Project:

☒ Recharge Zone
☐ Transition Zone
☐ Contributing Zone within the Transition Zone

4. ☒ **Attachment A - Geologic Assessment Table.** Completed Geologic Assessment Table (Form TCEQ-0585-Table) is attached.
5. ☒ Soil cover on the project site is summarized in the table below and uses the SCS Hydrologic Soil Groups* (Urban Hydrology for Small Watersheds, Technical Release No. 55, Appendix A, Soil Conservation Service, 1986). If there is more than one soil type on the project site, show each soil type on the site Geologic Map or a separate soils map.

Table 1 - Soil Units, Infiltration Characteristics and Thickness

Soil Name	Group*	Thickness(feet)
EaD	D	0-1
KrA	C	3-6

** Soil Group Definitions (Abbreviated)*

- A. Soils having a high infiltration rate when thoroughly wetted.
- B. Soils having a moderate infiltration rate when thoroughly wetted.
- C. Soils having a slow infiltration rate when thoroughly wetted.
- D. Soils having a very slow infiltration rate when thoroughly wetted.

6. ☒ **Attachment B – Stratigraphic Column.** A stratigraphic column showing formations, members, and thicknesses is attached. The outcropping unit, if present, should be at the top of the stratigraphic column. Otherwise, the uppermost unit should be at the top of the stratigraphic column.
7. ☒ **Attachment C – Site Geology.** A narrative description of the site specific geology including any features identified in the Geologic Assessment Table, a discussion of the potential for fluid movement to the Edwards Aquifer, stratigraphy, structure(s), and karst characteristics is attached.
8. ☒ **Attachment D – Site Geologic Map(s).** The Site Geologic Map must be the same scale as the applicant's Site Plan. The minimum scale is 1": 400'
 Applicant's Site Plan Scale: 1" = '
 Site Geologic Map Scale: 1" = 60 '
 Site Soils Map Scale (if more than 1 soil type): 1" = 125 '
9. Method of collecting positional data:
☒ Global Positioning System (GPS) technology.
☐ Other method(s). Please describe method of data collection: _____
10. ☒ The project site and boundaries are clearly shown and labeled on the Site Geologic Map.
11. ☒ Surface geologic units are shown and labeled on the Site Geologic Map.

12. ☐ Geologic or manmade features were discovered on the project site during the field investigation. They are shown and labeled on the Site Geologic Map and are described in the attached Geologic Assessment Table.
- ☒ Geologic or manmade features were not discovered on the project site during the field investigation.
13. ☒ The Recharge Zone boundary is shown and labeled, if appropriate.
14. All known wells (test holes, water, oil, unplugged, capped and/or abandoned, etc.): If applicable, the information must agree with Item No. 20 of the WPAP Application Section.
- ☐ There are _____ (#) wells present on the project site and the locations are shown and labeled. (Check all of the following that apply.)
- ☐ The wells are not in use and have been properly abandoned.
- ☐ The wells are not in use and will be properly abandoned.
- ☐ The wells are in use and comply with 16 TAC Chapter 76.
- ☒ There are no wells or test holes of any kind known to exist on the project site.

Administrative Information

15. ☒ Submit one (1) original and one (1) copy of the application, plus additional copies as needed for each affected incorporated city, groundwater conservation district, and county in which the project will be located. The TCEQ will distribute the additional copies to these jurisdictions. The copies must be submitted to the appropriate regional office.

NO FEATURES OBSERVED

[illegible]

* DATUM NAD27

2A TYPE	TYPE	2B POINTS
C	Cave	30
SC	Solution cavity	20
SF	Solution-enlarged fracture(s)	20
F	Fault	20
O	Other natural bedrock features	5
MB	Manmade feature in bedrock	30
SW	Swallow hole	30
SH	Sinkhole	20
CD	Non-karst closed depression	5
Z	Zone, clustered or aligned features	30

8A INFILLING	
N	None, exposed bedrock
C	Coarse - cobbles, breakdown, sand, gravel
O	Loose or soft mud or soil, organics, leaves, sticks, dark colors
F	Fines, compacted clay-rich sediment, soil profile, gray or red colors
V	Vegetation. Give details in narrative description
FS	Flowstone, cements, cave deposits
X	Other materials

12 TOPOGRAPHY

I have read, I understood, and I have followed the Texas Natural Resource Conservation Commission's instructions to Geologists. The information presented here complies with that document and is a true representation of the conditions observed in the field.

My signature certifies that I am qualified as a geologist as defined by 30 TAC 213

Date _____

4/19/2024

TNRCC-0585-Table (Rev. 5-1-02)

Sheet 1 of



ATTACHMENT B

Stratigraphic Column
136 Market Street
Georgetown, Williamson County, Texas

HYDROGEOLOGIC SUBDIVISION	FORMATION	THICKNESS (feet)	LITHOLOGY
Edwards Aquifer	Georgetown Formation	65	Nodular, fossiliferous limestone interbedded with marl

Source: Senger, Collins and Kreitler, 1990





ATTACHMENT C SITE-SPECIFIC GEOLOGY

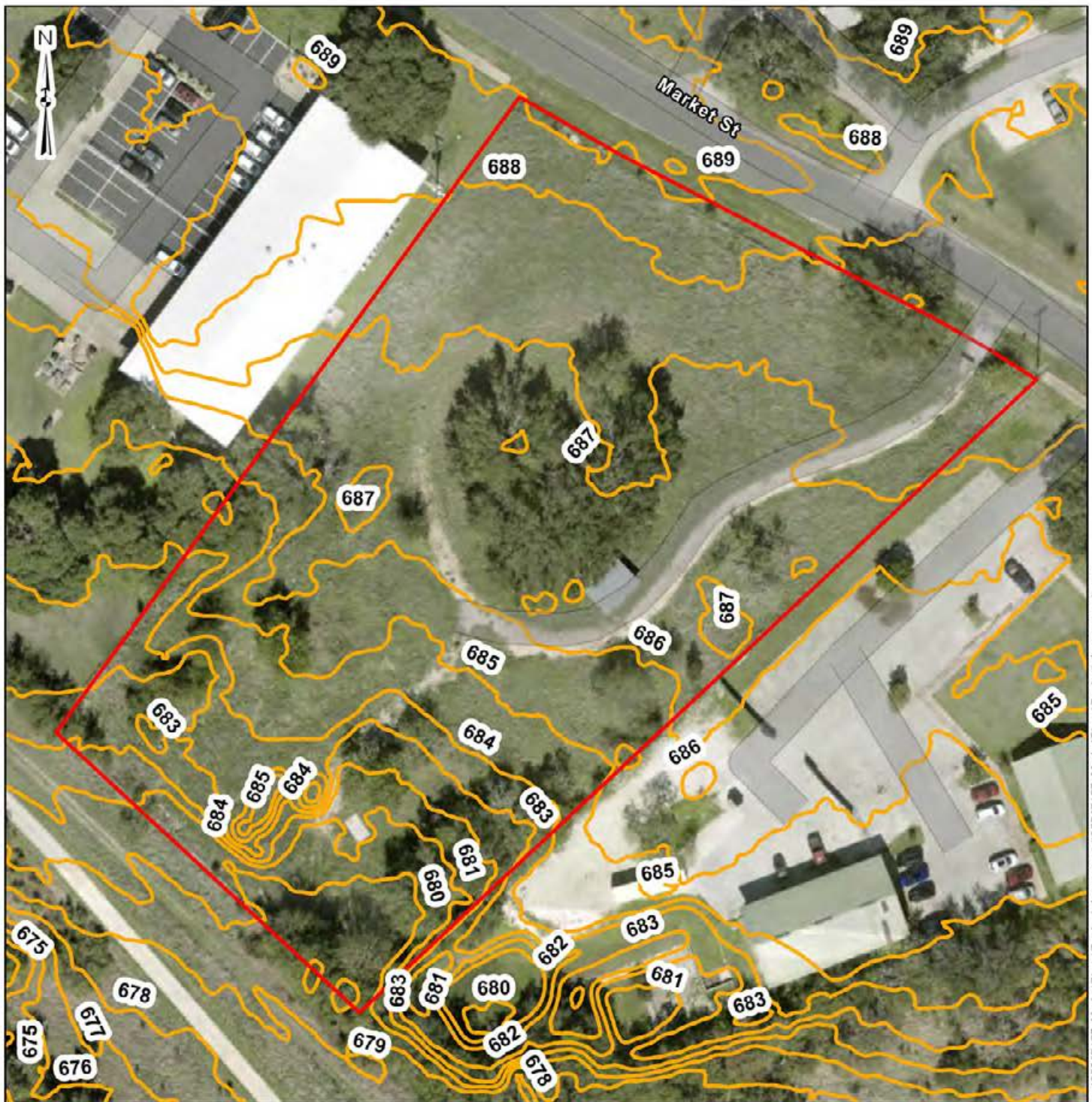
The Geologic Assessment (GA) of the 136 Market Street site was performed by Kevin Denson, P.G. of Terracon on April 4, 2024. The site is an approximate 2.788-acre tract of vacant land located on Market Street approximately 1,400 feet east of the IH-35 frontage road in Georgetown, Williamson County, Texas. The site is currently undeveloped, with the exception of a covered gazebo area and a small concrete slab.

Exhibit 1 (attached) is a site location map depicting the site in relation to the surrounding area. The areas immediately surrounding the site are a mix of undeveloped, agricultural, residential, and commercial properties. The site is characterized as slightly to moderately sloping to the southwest and site elevation ranges from about 689 to 690 feet above mean sea level (msl).

The surficial geologic units present at the site have been identified as alluvium and fluvial terrace deposits, underlain by the Georgetown Formation (Kgt). Exhibit 2 (attached) is a geologic map of the site. The site is located entirely within the recharge zone of the Edwards aquifer, and the recharge zone boundary is located approximately 3,500 feet northwest of the site. The Georgetown Formation overlies the Edwards Group and is the uppermost formation of the Edwards aquifer. Attachment B (attached) is a stratigraphic column prepared for the site. Exposure of this unit is generally obscured by the soil and vegetation present at the site. No evidence of faulting was observed on the site. Additionally, a review of aerial photographs did not reveal lineations, which typically indicate the presence of faulting. Based on a review of the Geologic Atlas of Texas Austin Sheet, the closest mapped fault is located about 150 feet east of the site. The fault trends to the northeast and is associated with the Balcones fault zone, which is comprised of normal, high-angle faults, that are generally down-thrown to the southeast. The Balcones fault zone represents the dominant structural trend of the area.

No geologic features were observed on the site. The completed Geologic Assessment form is attached as Attachment A. Due to the lack of significant sensitive recharge features observed on the site and the presence of a relatively impermeable soil cover, the potential for fluid movement to the Edwards aquifer beneath the site is considered low.

No springs were observed onsite. A review of the site maps contained in the City of Georgetown Ordinance 2015-14 indicated there are no known springs occupied by the Georgetown Salamander on the site and the nearest known occupied site is located approximately three miles southwest of the site (San Gabriel Spring).



▬ Approximate Project Boundary

▬ Williamson County 1-Ft Topography - 2017

0 62.5 125 250 Feet

DATA SOURCES:

Esri Community Maps Contributors, Baylor University, County of Williamson, Texas Parks & Wildlife, © OpenStreetMap, Microsoft, CONANP, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, USFWS, Williamson County TX, Maxar, WCAD GIS Open Data Portal

Project No.:
96247107
Date:
Apr 2024
Drawn By:
RC
Reviewed By:
KD



5307 Industrial Oaks Blvd. - #160 Austin, TX 78735
PH. (512) 442-1122 terracon.com

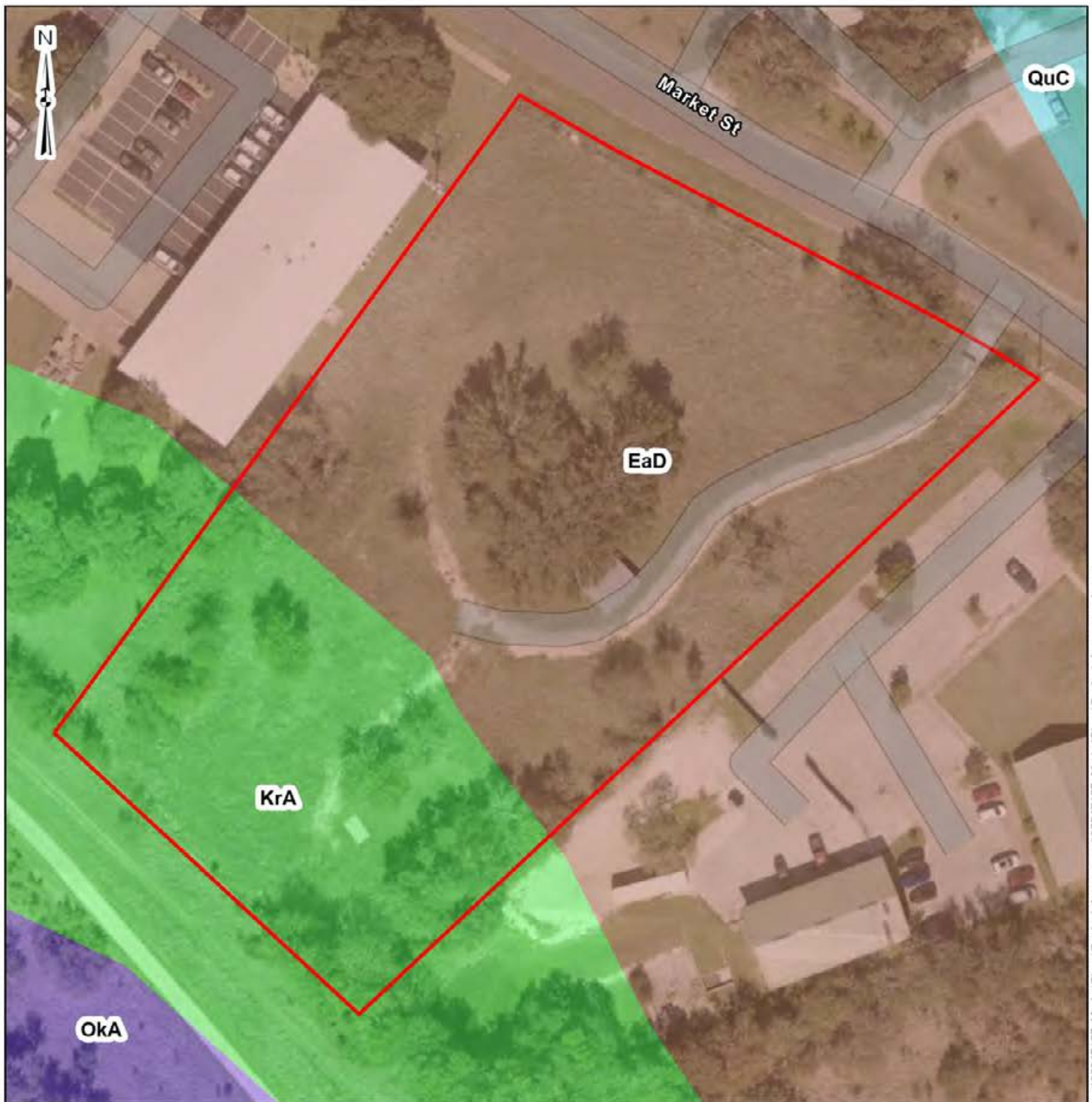
Site Specific Topography

Market Street Geologic Assessment

136 Market Street, Georgetown, Texas

Exhibit

1.0



 Approximate Project Boundary

USDA NRCS WSS Map Units

- Eckrant cobbly clay, 1-8% slopes (EaD)
- Krum silty clay, 0-1% slopes (KrA)
- Oakalla silty clay loam, 0-2% slopes (OkA)
- Queeney clay loam, 1-5% slopes (QuC)

DATA SOURCES:

Esri Community Maps Contributors, Baylor University, County of Williamson, Texas Parks & Wildlife, © OpenStreetMap, Microsoft, CONANP, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, USFWS, Williamson County TX, Maxar, WCAD GIS Open Data Portal, USDA NRCS Web Soil Survey

Project No.:	96247107
Date:	Apr 2024
Drawn By:	RC
Reviewed By:	KD



5307 Industrial Oaks Blvd. - #160 Austin, TX 78735
PH. (512) 442-1122 terracon.com

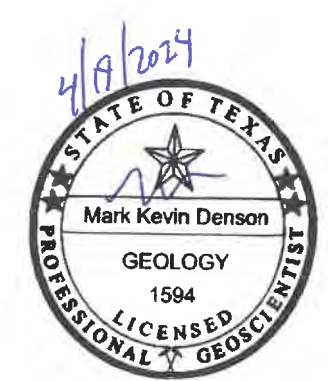
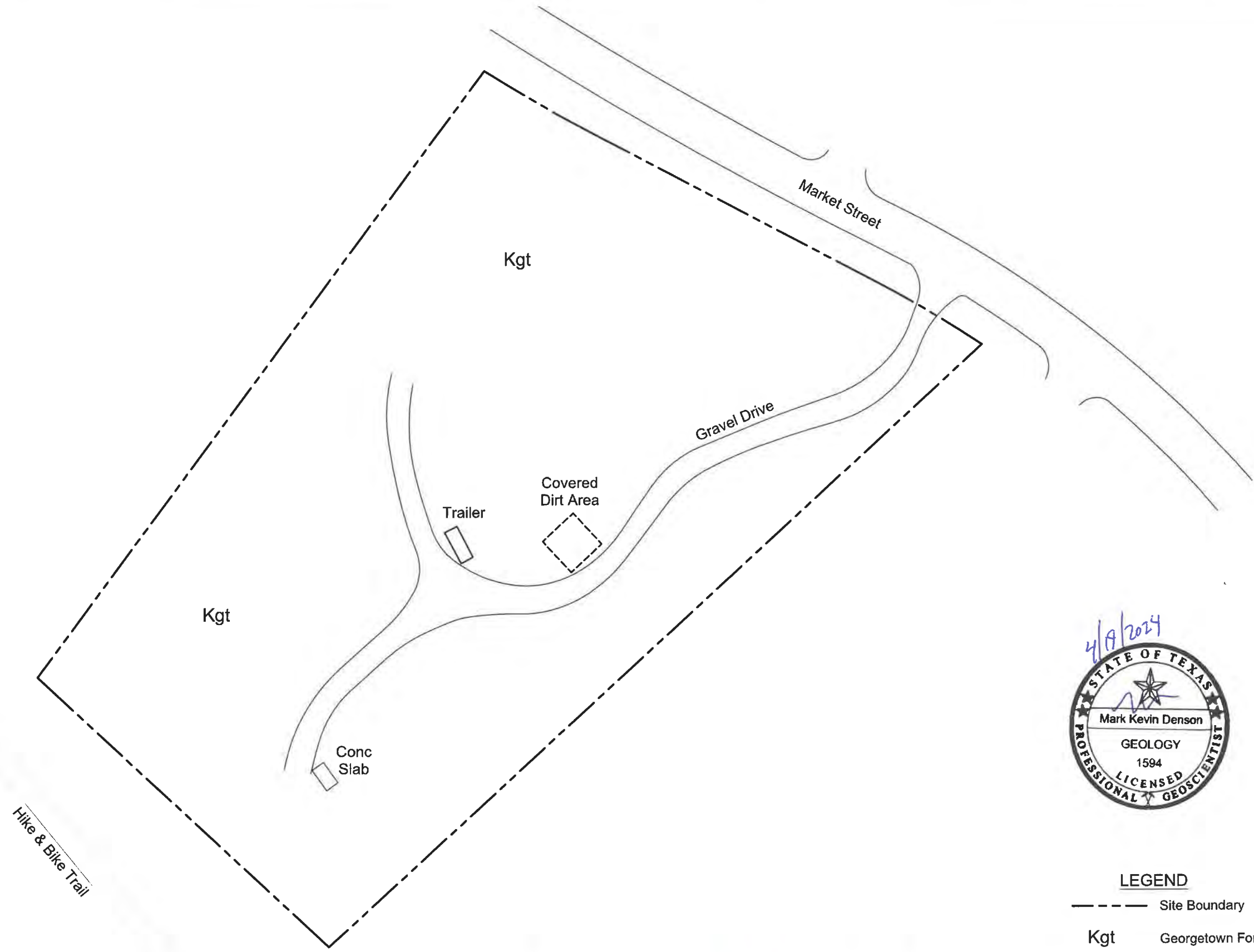
USDA Site Soil Map

Market Street Geologic Assessment

136 Market Street, Georgetown, Texas

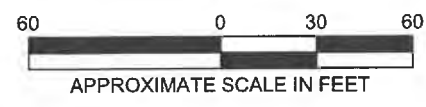
Exhibit

2.0

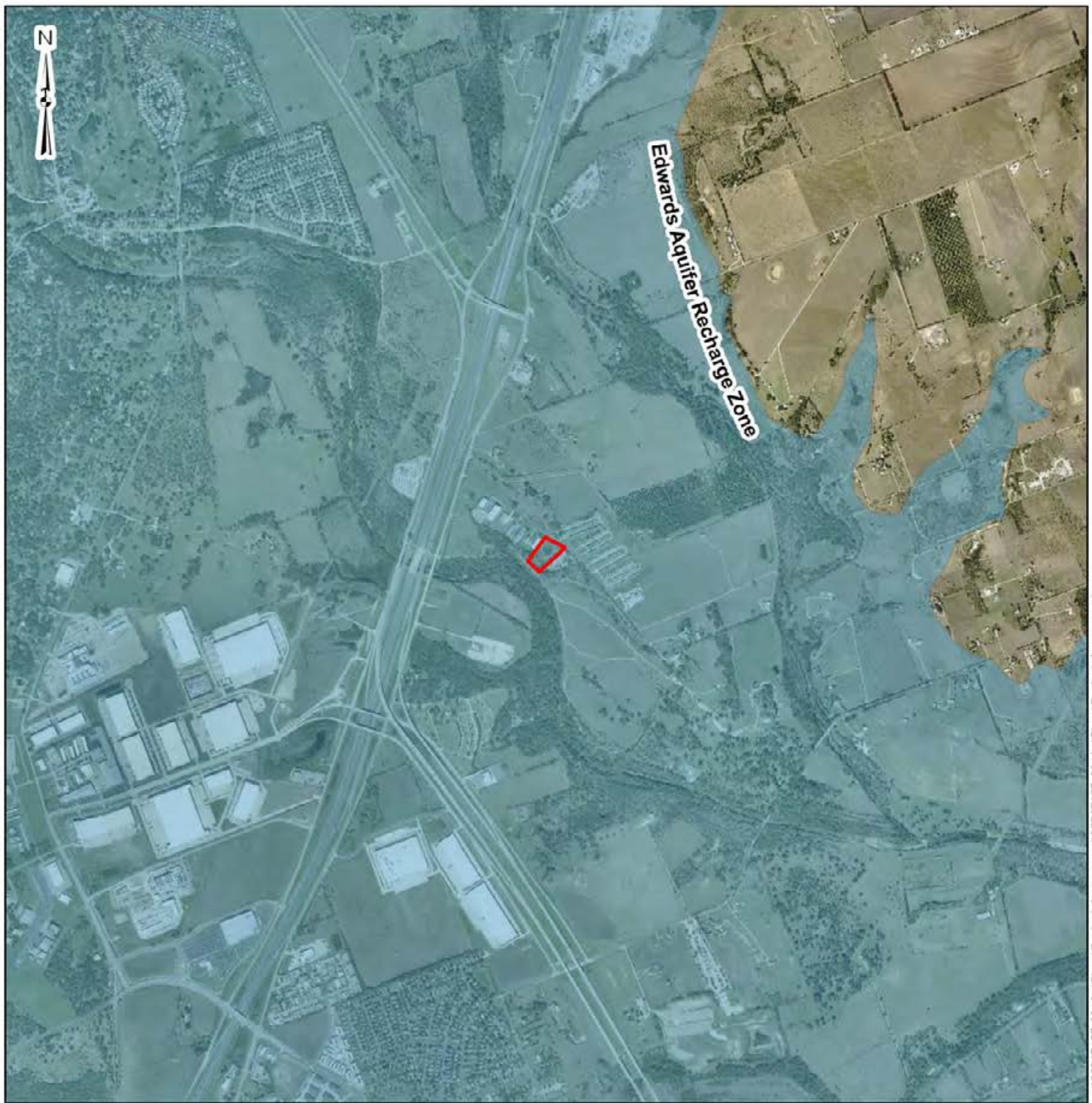


LEGEND

- Site Boundary
- Kgt Georgetown Formation



Project Mngr: KD	Project No. 96247107	 Consulting Engineers and Scientists 5307 INDUSTRIAL OAKS BLVD. - #160 AUSTIN, TX 78735 PH. (512) 442-1122 FAX (512) 442-1181	SITE GEOLOGIC MAP 2.79 Acre Tract 136 Market Street Georgetown, Williamson County, Texas	EXHIBIT 3
Drawn By: ATX Drafting	Scale: AS SHOWN			
Checked By: KD	File No. 96247107			
Approved By: KD	Date: Apr 03, 2024			



▭ Approximate Project Boundary
 TCEQ Edwards Aquifer Zone Data
 Edwards Aquifer Recharge Zone
 0 0.25 0.5 1 Miles

DATA SOURCES:
 Williamson County TX, Maxar, WCAD GIS Open Data Portal, TWDB, TCEQ, TNIRIS

Project No.: 96247107 Date: Apr 2024 Drawn By: RC Reviewed By: KD	 5307 Industrial Oaks Blvd. - #160 Austin, TX 78735 PH. (512) 442-1122 terracon.com	<div>Edwards Aquifer Zones</div> <div>Market Street Geologic Assessment</div> <div>136 Market Street, Georgetown, Texas</div>	<div>Exhibit</div> <div>4.0</div>
--	---	---	-----------------------------------

N:\GIS\Projects\2024\06247107_MarketStreetGeologicAssessment\Map\96247107_MarketStreetGeologicAssessment.aprx

Water Pollution Abatement Plan Application

Texas Commission on Environmental Quality

for Regulated Activities on the Edwards Aquifer Recharge Zone and Relating to 30 TAC §213.5(b), Effective June 1, 1999

To ensure that the application is administratively complete, confirm that all fields in the form are complete, verify that all requested information is provided, consistently reference the same site and contact person in all forms in the application, and ensure forms are signed by the appropriate party.

Note: Including all the information requested in the form and attachments contributes to more streamlined technical reviews.


Signature

To the best of my knowledge, the responses to this form accurately reflect all information requested concerning the proposed regulated activities and methods to protect the Edwards Aquifer. This **Water Pollution Abatement Plan Application Form** is hereby submitted for TCEQ review and Executive Director approval. The form was prepared by:

Print Name of Customer/Agent: Landon Cole Allen

Date: 06-26-2024

Signature of Customer/Agent:



Regulated Entity Name: Hill Country Forensics

Regulated Entity Information

1. The type of project is:

- ☐ Residential: Number of Lots: _____
- ☐ Residential: Number of Living Unit Equivalents: _____
- ☒ Commercial
- ☐ Industrial
- ☐ Other: _____

2. Total site acreage (size of property): 2.788 (2.94 Total Project Area)

3. Estimated projected population: N/A

4. The amount and type of impervious cover expected after construction are shown below:

Table 1 - Impervious Cover Table

Impervious Cover of Proposed Project	Sq. Ft.	Sq. Ft./Acre	Acres
Structures/Rooftops	11,960	$\div 43,560 =$	0.27
Parking	21153	$\div 43,560 =$	0.49
Other paved surfaces	5356	$\div 43,560 =$	0.12
Total Impervious Cover	38,469	$\div 43,560 =$	0.88

Total Impervious Cover 0.88 \div Total Acreage 2.94 X 100 = 29.9% Impervious Cover

5. ☒ **Attachment A - Factors Affecting Surface Water Quality.** A detailed description of all factors that could affect surface water and groundwater quality that addresses ultimate land use is attached.
6. ☒ Only inert materials as defined by 30 TAC §330.2 will be used as fill material.

For Road Projects Only

Complete questions 7 - 12 if this application is exclusively for a road project.

7. Type of project:

- ☐ TXDOT road project.
- ☐ County road or roads built to county specifications.
- ☐ City thoroughfare or roads to be dedicated to a municipality.
- ☐ Street or road providing access to private driveways.

8. Type of pavement or road surface to be used:

- ☐ Concrete
- ☐ Asphaltic concrete pavement
- ☐ Other: _____

9. Length of Right of Way (R.O.W.): _____ feet.

Width of R.O.W.: _____ feet.

$L \times W =$ _____ $\text{Ft}^2 \div 43,560 \text{ Ft}^2/\text{Acre} =$ _____ acres.

10. Length of pavement area: _____ feet.

Width of pavement area: _____ feet.

$L \times W =$ _____ $\text{Ft}^2 \div 43,560 \text{ Ft}^2/\text{Acre} =$ _____ acres.

Pavement area _____ acres \div R.O.W. area _____ acres $\times 100 =$ _____ % impervious cover.

11. ☐ A rest stop will be included in this project.

☐ A rest stop will not be included in this project.

12. ☐ Maintenance and repair of existing roadways that do not require approval from the TCEQ Executive Director. Modifications to existing roadways such as widening roads/adding shoulders totaling more than one-half (1/2) the width of one (1) existing lane require prior approval from the TCEQ.

Stormwater to be generated by the Proposed Project

13. ☒ **Attachment B - Volume and Character of Stormwater.** A detailed description of the volume (quantity) and character (quality) of the stormwater runoff which is expected to occur from the proposed project is attached. The estimates of stormwater runoff quality and quantity are based on the area and type of impervious cover. Include the runoff coefficient of the site for both pre-construction and post-construction conditions.

Wastewater to be generated by the Proposed Project

14. The character and volume of wastewater is shown below:

<u>100%</u> Domestic	<u>120</u> Gallons/day
<u> </u> % Industrial	<u> </u> Gallons/day
<u> </u> % Commingled	<u> </u> Gallons/day
TOTAL gallons/day <u>120</u>	

15. Wastewater will be disposed of by:

☒ On-Site Sewage Facility (OSSF/Septic Tank):

☒ **Attachment C - Suitability Letter from Authorized Agent.** An on-site sewage facility will be used to treat and dispose of the wastewater from this site. The appropriate licensing authority's (authorized agent) written approval is attached. It states that the land is suitable for the use of private sewage facilities and will meet or exceed the requirements for on-site sewage facilities as specified under 30 TAC Chapter 285 relating to On-site Sewage Facilities.

☒ Each lot in this project/development is at least one (1) acre (43,560 square feet) in size. The system will be designed by a licensed professional engineer or registered sanitarian and installed by a licensed installer in compliance with 30 TAC Chapter 285.

☐ Sewage Collection System (Sewer Lines):

☐ Private service laterals from the wastewater generating facilities will be connected to an existing SCS.

☐ Private service laterals from the wastewater generating facilities will be connected to a proposed SCS.

☐ The SCS was previously submitted on .

☐ The SCS was submitted with this application.

☐ The SCS will be submitted at a later date. The owner is aware that the SCS may not be installed prior to Executive Director approval.

☐ The sewage collection system will convey the wastewater to the _____ (name) Treatment Plant. The treatment facility is:

☐ Existing.

☐ Proposed.

16. ☒ All private service laterals will be inspected as required in 30 TAC §213.5.

Site Plan Requirements

Items 17 – 28 must be included on the Site Plan.

17. ☒ The Site Plan must have a minimum scale of 1" = 400'.

Site Plan Scale: 1" = 30'.

18. 100-year floodplain boundaries:

☐ Some part(s) of the project site is located within the 100-year floodplain. The floodplain is shown and labeled.

☒ No part of the project site is located within the 100-year floodplain.

The 100-year floodplain boundaries are based on the following specific (including date of material) sources(s): Map number 48491C028F eff. 12/20/2019

19. ☒ The layout of the development is shown with existing and finished contours at appropriate, but not greater than ten-foot contour intervals. Lots, recreation centers, buildings, roads, open space, etc. are shown on the plan.

☐ The layout of the development is shown with existing contours at appropriate, but not greater than ten-foot intervals. Finished topographic contours will not differ from the existing topographic configuration and are not shown. Lots, recreation centers, buildings, roads, open space, etc. are shown on the site plan.

20. All known wells (oil, water, unplugged, capped and/or abandoned, test holes, etc.):

☐ There are _____ (#) wells present on the project site and the locations are shown and labeled. (Check all of the following that apply)

☐ The wells are not in use and have been properly abandoned.

☐ The wells are not in use and will be properly abandoned.

☐ The wells are in use and comply with 16 TAC §76.

☒ There are no wells or test holes of any kind known to exist on the project site.

21. Geologic or manmade features which are on the site:

☐ All sensitive geologic or manmade features identified in the Geologic Assessment are shown and labeled.

☒ No sensitive geologic or manmade features were identified in the Geologic Assessment.

☐ **Attachment D - Exception to the Required Geologic Assessment.** A request and justification for an exception to a portion of the Geologic Assessment is attached.

- 22. ☒ The drainage patterns and approximate slopes anticipated after major grading activities.
- 23. ☒ Areas of soil disturbance and areas which will not be disturbed.
- 24. ☒ Locations of major structural and nonstructural controls. These are the temporary and permanent best management practices.
- 25. ☒ Locations where soil stabilization practices are expected to occur.
- 26. ☐ Surface waters (including wetlands).
☒ N/A
- 27. ☐ Locations where stormwater discharges to surface water or sensitive features are to occur.
☒ There will be no discharges to surface water or sensitive features.
- 28. ☒ Legal boundaries of the site are shown.

Administrative Information

- 29. ☒ Submit one (1) original and one (1) copy of the application, plus additional copies as needed for each affected incorporated city, groundwater conservation district, and county in which the project will be located. The TCEQ will distribute the additional copies to these jurisdictions. The copies must be submitted to the appropriate regional office.
- 30. ☒ Any modification of this WPAP will require Executive Director approval, prior to construction, and may require submission of a revised application, with appropriate fees.

TCEQ FORM 0584
ATTACHMENT A – FACTORS AFFECTING SURFACE WATER QUALITY

During construction, the potential sources of pollution that may be expected to affect the quality of storm water discharges from the site include primarily suspended solids and the release of hydrocarbons with examples as follows:

- Soil erosion due to clearing of the site.
- Oil, grease, fuel, and hydraulic fluid contamination from construction equipment and vehicle drippings.
- Trash and litter from construction workers.
- Tar, fertilizers, cleaning solvents, detergents, and petroleum-based products
- Concrete truck washouts

Post construction, the potential sources of pollution that may be expected to affect the quality of storm water discharges from the site include:

- Trash and litter from the office or dumpster area
- Dirt, dust, oil, grease, fuel, and hydraulic fluid from vehicle drippings

TCEQ FORM 0584
ATTACHMENT B – VOLUME AND CHARACTER OF STORMWATER

For the proposed design, there is 2.94 acres within the total project area watershed. In an effort to be conservative, the existing gravel drive was not taken into account for impervious cover calculations. Therefore, the existing impervious cover percentage is considered 0%. For proposed design, there is a total of 0.88 acres of impervious cover within the total project area. The resultant impervious cover calculation within the total project area is 29.9%.

TCEQ RG-348 Equation 3.11

$$R_v = 1.72(IC)^3 - 1.97(IC)^2 + 1.23(IC) + 0.02$$

$$IC = 0.299$$

$$\text{Proposed } R_v = 0.258$$

TCEQ RG-348 Table 3-3

Williamson County Average Annual Precipitation = 32 in

$$\text{Annual Volume} : 2.94 \text{ Acres} * 43560 \text{ sf/acre} * 0.258 * 32 \text{ in} * (1 \text{ ft} / 12 \text{ in}) = 88,109 \text{ cf}$$

Since the impervious cover increased due to development, the total volume of stormwater increased as well. However, a detention pond is proposed to reduce the flow of stormwater back to pre-developed conditions, and is being permitted through Georgetown. The quality of the stormwater is also improved due to structural controls implemented in design (batch detention pond). Stormwater leaving the site is dispersed back to shallow concentrated flow through the use of a rock berm level spreader at the downstream end of the property.

TCEQ FORM 0584
ATTACHMENT C – SUITABILITY LETTER FROM AUTHORIZED AGENT

Department of Infrastructure
County Engineer's Office
3151 SE Inner Loop, Ste B
Georgetown, TX 78626
T: 512.943.3330
F: 512.943.3335

J. Terron Evertson, PE, DR, CFM



July 29, 2024

Forensic Spaces, LLC

RE: 136 Market Street, Georgetown, TX 78626
S6593 – Resource Commercial Park, Lot 5/pt, Acres 2.40

The above referenced property is located within the Edwards Aquifer Recharge Zone.

Based on the surrounding subdivisions and the soil survey for Williamson County and planning material received, this office is able to determine that the soil and site conditions of this lot is suitable to allow the use of on-site sewage facilities (OSSF). It should be noted that this office has not actually studied the physical properties of this site. Site specific conditions such as OSSF setbacks, recharge features, drainage, soil conditions, etc..., will need taken into account in planning any OSSF.

These OSSF's will have to be designed by a professional engineer or a registered sanitarian. An Edwards Aquifer protection plan shall be approved by the appropriate TCEQ regional office before an authorization to construct an OSSF may be issued. The owner will be required to inform each prospective buyer, lessee or renter of the following in writing:

- That an authorization to construct shall be required before an OSSF can be constructed in the subdivision;
- That a notice of approval shall be required for the operation of an OSSF;
- Whether an application for a water pollution abatement plan as defined in Chapter 213 has been made, whether it has been approved and if any restrictions or conditions have been placed on the approval.

If this office can be of further assistance, please do not hesitate to call.

Sincerely,

Doug McPeters, OS 8626
Williamson County - OSSF

OS 8626

TCEQ FORM 0584
ATTACHMENT D – EXCEPTION TO THE REQUIRED GEOLOGIC ASSESSMENT

Not Applicable

Temporary Stormwater Section

Texas Commission on Environmental Quality

for Regulated Activities on the Edwards Aquifer Recharge Zone and Relating to 30 TAC §213.5(b)(4)(A), (B), (D)(I) and (G); Effective June 1, 1999

To ensure that the application is administratively complete, confirm that all fields in the form are complete, verify that all requested information is provided, consistently reference the same site and contact person in all forms in the application, and ensure forms are signed by the appropriate party.

Note: Including all the information requested in the form and attachments contributes to more streamlined technical reviews.

Signature

To the best of my knowledge, the responses to this form accurately reflect all information requested concerning the proposed regulated activities and methods to protect the Edwards Aquifer. This **Temporary Stormwater Section** is hereby submitted for TCEQ review and executive director approval. The application was prepared by:

Print Name of Customer/Agent: Landon Cole Allen, P.E.

Date: 07-16-2024

Signature of Customer/Agent:



Regulated Entity Name: Hill Country Forensics

Project Information

Potential Sources of Contamination

Examples: Fuel storage and use, chemical storage and use, use of asphaltic products, construction vehicles tracking onto public roads, and existing solid waste.

1. Fuels for construction equipment and hazardous substances which will be used during construction:

☐ The following fuels and/or hazardous substances will be stored on the site: _____

These fuels and/or hazardous substances will be stored in:

- ☐ Aboveground storage tanks with a cumulative storage capacity of less than 250 gallons will be stored on the site for less than one (1) year.

- ☐ Aboveground storage tanks with a cumulative storage capacity between 250 gallons and 499 gallons will be stored on the site for less than one (1) year.
- ☐ Aboveground storage tanks with a cumulative storage capacity of 500 gallons or more will be stored on the site. An Aboveground Storage Tank Facility Plan application must be submitted to the appropriate regional office of the TCEQ prior to moving the tanks onto the project.
- ☒ Fuels and hazardous substances will not be stored on the site.
- 2. ☒ **Attachment A - Spill Response Actions.** A site specific description of the measures to be taken to contain any spill of hydrocarbons or hazardous substances is attached.
- 3. ☒ Temporary aboveground storage tank systems of 250 gallons or more cumulative storage capacity must be located a minimum horizontal distance of 150 feet from any domestic, industrial, irrigation, or public water supply well, or other sensitive feature.
- 4. ☒ **Attachment B - Potential Sources of Contamination.** A description of any activities or processes which may be a potential source of contamination affecting surface water quality is attached.

Sequence of Construction

- 5. ☒ **Attachment C - Sequence of Major Activities.** A description of the sequence of major activities which will disturb soils for major portions of the site (grubbing, excavation, grading, utilities, and infrastructure installation) is attached.
 - ☒ For each activity described, an estimate (in acres) of the total area of the site to be disturbed by each activity is given.
 - ☒ For each activity described, include a description of appropriate temporary control measures and the general timing (or sequence) during the construction process that the measures will be implemented.
- 6. ☒ Name the receiving water(s) at or near the site which will be disturbed or which will receive discharges from disturbed areas of the project: Berry Creek (a tributary to the San Gabriel River)

Temporary Best Management Practices (TBMPs)

Erosion control examples: tree protection, interceptor swales, level spreaders, outlet stabilization, blankets or matting, mulch, and sod. Sediment control examples: stabilized construction exit, silt fence, filter dikes, rock berms, buffer strips, sediment traps, and sediment basins. Please refer to the Technical Guidance Manual for guidelines and specifications. All structural BMPs must be shown on the site plan.

- 7. ☒ **Attachment D – Temporary Best Management Practices and Measures.** TBMPs and measures will prevent pollution of surface water, groundwater, and stormwater. The construction-phase BMPs for erosion and sediment controls have been designed to retain sediment on site to the extent practicable. The following information is attached:

- ☒ A description of how BMPs and measures will prevent pollution of surface water, groundwater or stormwater that originates upgradient from the site and flows across the site.
 - ☒ A description of how BMPs and measures will prevent pollution of surface water or groundwater that originates on-site or flows off site, including pollution caused by contaminated stormwater runoff from the site.
 - ☒ A description of how BMPs and measures will prevent pollutants from entering surface streams, sensitive features, or the aquifer.
 - ☒ A description of how, to the maximum extent practicable, BMPs and measures will maintain flow to naturally-occurring sensitive features identified in either the geologic assessment, TCEQ inspections, or during excavation, blasting, or construction.
8. ☒ The temporary sealing of a naturally-occurring sensitive feature which accepts recharge to the Edwards Aquifer as a temporary pollution abatement measure during active construction should be avoided.
- ☐ **Attachment E - Request to Temporarily Seal a Feature.** A request to temporarily seal a feature is attached. The request includes justification as to why no reasonable and practicable alternative exists for each feature.
- ☒ There will be no temporary sealing of naturally-occurring sensitive features on the site.
9. ☒ **Attachment F - Structural Practices.** A description of the structural practices that will be used to divert flows away from exposed soils, to store flows, or to otherwise limit runoff discharge of pollutants from exposed areas of the site is attached. Placement of structural practices in floodplains has been avoided.
10. ☒ **Attachment G - Drainage Area Map.** A drainage area map supporting the following requirements is attached:
- ☐ For areas that will have more than 10 acres within a common drainage area disturbed at one time, a sediment basin will be provided.
 - ☐ For areas that will have more than 10 acres within a common drainage area disturbed at one time, a smaller sediment basin and/or sediment trap(s) will be used.
 - ☐ For areas that will have more than 10 acres within a common drainage area disturbed at one time, a sediment basin or other equivalent controls are not attainable, but other TBMPs and measures will be used in combination to protect down slope and side slope boundaries of the construction area.
 - ☐ There are no areas greater than 10 acres within a common drainage area that will be disturbed at one time. A smaller sediment basin and/or sediment trap(s) will be used in combination with other erosion and sediment controls within each disturbed drainage area.

- ☒ There are no areas greater than 10 acres within a common drainage area that will be disturbed at one time. Erosion and sediment controls other than sediment basins or sediment traps within each disturbed drainage area will be used.
11. ☐ **Attachment H - Temporary Sediment Pond(s) Plans and Calculations.** Temporary sediment pond or basin construction plans and design calculations for a proposed temporary BMP or measure have been prepared by or under the direct supervision of a Texas Licensed Professional Engineer. All construction plans and design information must be signed, sealed, and dated by the Texas Licensed Professional Engineer. Construction plans for the proposed temporary BMPs and measures are attached.
- ☒ N/A
12. ☒ **Attachment I - Inspection and Maintenance for BMPs.** A plan for the inspection of each temporary BMP(s) and measure(s) and for their timely maintenance, repairs, and, if necessary, retrofit is attached. A description of the documentation procedures, recordkeeping practices, and inspection frequency are included in the plan and are specific to the site and/or BMP.
13. ☒ All control measures must be properly selected, installed, and maintained in accordance with the manufacturer's specifications and good engineering practices. If periodic inspections by the applicant or the executive director, or other information indicate a control has been used inappropriately, or incorrectly, the applicant must replace or modify the control for site situations.
14. ☒ If sediment escapes the construction site, off-site accumulations of sediment must be removed at a frequency sufficient to minimize offsite impacts to water quality (e.g., fugitive sediment in street being washed into surface streams or sensitive features by the next rain).
15. ☒ Sediment must be removed from sediment traps or sedimentation ponds not later than when design capacity has been reduced by 50%. A permanent stake will be provided that can indicate when the sediment occupies 50% of the basin volume.
16. ☒ Litter, construction debris, and construction chemicals exposed to stormwater shall be prevented from becoming a pollutant source for stormwater discharges (e.g., screening outfalls, picked up daily).

Soil Stabilization Practices

Examples: establishment of temporary vegetation, establishment of permanent vegetation, mulching, geotextiles, sod stabilization, vegetative buffer strips, protection of trees, or preservation of mature vegetation.

17. ☒ **Attachment J - Schedule of Interim and Permanent Soil Stabilization Practices.** A schedule of the interim and permanent soil stabilization practices for the site is attached.

- 18. ☒ Records must be kept at the site of the dates when major grading activities occur, the dates when construction activities temporarily or permanently cease on a portion of the site, and the dates when stabilization measures are initiated.
- 19. ☒ Stabilization practices must be initiated as soon as practicable where construction activities have temporarily or permanently ceased.

Administrative Information

- 20. ☒ All structural controls will be inspected and maintained according to the submitted and approved operation and maintenance plan for the project.
- 21. ☒ If any geologic or manmade features, such as caves, faults, sinkholes, etc., are discovered, all regulated activities near the feature will be immediately suspended. The appropriate TCEQ Regional Office shall be immediately notified. Regulated activities must cease and not continue until the TCEQ has reviewed and approved the methods proposed to protect the aquifer from any adverse impacts.
- 22. ☒ Silt fences, diversion berms, and other temporary erosion and sediment controls will be constructed and maintained as appropriate to prevent pollutants from entering sensitive features discovered during construction.

TCEQ FORM 0602

ATTACHMENT A – SPILL RESPONSE ACTIONS

The purpose of this section is to provide measures and steps to help reduce the discharge of pollutants to watercourses from accidental leaks and spills. This goal can be obtained by providing education on how to reduce the chance for spills, stopping the source of spills, containing and cleaning up the spills, properly disposing of spill materials, and training employees.

The contractor needs to ensure that all employees and sub-contractors on the job site are aware of the spill response measures in order to respond with the appropriate action for each individual type of spill. In addition to the following guidance, the contractor can reference the latest version of TCEQ's Technical Guidance Manual RG-348 Section 1.4.16.

The following steps will help reduce the stormwater impacts of leaks and spills:

Education

1. Be aware that different materials pollute in different amounts. Make sure that each employee knows what a "significant spill" is for each material they use, and what is the appropriate response for "significant" and "insignificant" spills. Employees should also be aware of when spill must be reported to the TCEQ. Information available in 30 TAC 327.4 and 40 CFR 302.4.
2. Educate employees and subcontractors on potential dangers to humans and the environment from spills and leaks.
3. Hold regular meetings to discuss and reinforce appropriate disposal procedures (incorporate into regular safety meetings).
4. Establish a continuing education program to indoctrinate new employees.
5. Have contractor's superintendent or representative oversee and enforce proper spill prevention and control measures.

General Measures

1. To the extent that the work can be accomplished safely, spills of oil, petroleum products, substances listed under 40 CFR parts 110,117, and 302, and sanitary and septic wastes should be contained and cleaned up immediately.
2. Store hazardous materials and wastes in covered containers and protect from vandalism.
3. Place a stockpile of spill cleanup materials where it will be readily accessible.
4. Train employees in spill prevention and cleanup.
5. Designate responsible individuals to oversee and enforce control measures.
6. Spills should be covered and protected from stormwater runoff during rainfall to the extent that it doesn't compromise clean up activities.
7. Do not bury or wash spills with water.

8. Store and dispose of used clean up materials, contaminated materials, and recovered spill material that is no longer suitable for the intended purpose in conformance with the provisions in applicable BMPs.
9. Do not allow water used for cleaning and decontamination to enter storm drains or watercourses. Collect and dispose of contaminated water in accordance with applicable regulations.
10. Contain water overflow or minor water spillage and do not allow it to discharge into drainage facilities or watercourses.
11. Place Material Safety Data Sheets (MSDS), as well as proper storage, cleanup, and spill reporting instructions for hazardous materials stored or used on the project site in an open, conspicuous, and accessible location.
12. Keep waste storage areas clean, well organized, and equipped with ample cleanup supplies as appropriate for the materials being stored. Perimeter controls, containment structures, covers, and liners should be repaired or replaced as needed to maintain proper function.

Cleanup

1. Clean up leaks and spills immediately.
2. Use a rag for small spills on paved surfaces, a damp mop for general cleanup, and absorbent material for larger spills. If the spilled material is hazardous, then the used cleanup materials are also hazardous and must be disposed of as hazardous waste.
3. Never hose down or bury dry material spills. Clean up as much of the material as possible and dispose of properly. See the waste management BMPs in this section for specific information.

Minor Spills

- (1) Minor spills typically involve small quantities of oil, gasoline, paint, etc. which can be controlled by the first responder at the discovery of the spill.
- (2) Use absorbent materials on small spills rather than hosing down or burying the spill.
- (3) Absorbent materials should be promptly removed and disposed of properly.
- (4) Follow the practice below for a minor spill:
- (5) Contain the spread of the spill.
- (6) Recover spilled materials.
- (7) Clean the contaminated area and properly dispose of contaminated materials.

Semi-Significant Spills

Semi-significant spills still can be controlled by the first responder along with the aid of other personnel such as laborers and the foreman, etc. This response may require the cessation of all other activities. Spills should be cleaned up immediately:

1. Contain spread of the spill.
2. Notify the project foreman immediately.

3. If the spill occurs on paved or impermeable surfaces, clean up using "dry" methods (absorbent materials, cat litter and/or rags). Contain the spill by encircling with absorbent materials and do not let the spill spread widely.
4. If the spill occurs in dirt areas, immediately contain the spill by constructing an earthen dike. Dig up and properly dispose of contaminated soil.
5. If the spill occurs during rain, cover spill with tarps or other material to prevent contaminating runoff.

Significant/Hazardous Spills

For significant or hazardous spills that are in reportable quantities:

1. Notify the TCEQ by telephone as soon as possible and within 24 hours at 512- 339-2929 (Austin) or 210-490-3096 (San Antonio) between 8 AM and 5 PM. After hours, contact the Environmental Release Hotline at 1-800-832-8224. It is the contractor's responsibility to have all emergency phone numbers at the construction site.
2. For spills of federal reportable quantities, in conformance with the requirements in 40 CFR parts 110,119, and 302, the contractor should notify the National Response Center at (800) 424-8802.
3. Notification should first be made by telephone and followed up with a written report.
4. The services of a spills contractor or a Haz-Mat team should be obtained immediately. Construction personnel should not attempt to clean up until the appropriate and qualified staffs have arrived at the job site.
5. Other agencies which may need to be consulted include, but are not limited to, the City Police Department, County Sheriff Office, Fire Departments, etc. More information on spill rules and appropriate responses is available on the TCEQ website at: http://www.tnrc.state.tx.us/enforcement/emergency_response.html

Vehicle and Equipment Maintenance

1. If maintenance must occur onsite, use a designated area and a secondary containment, located away from drainage courses, to prevent the runoff of stormwater and the runoff of spills.
2. Regularly inspect onsite vehicles and equipment for leaks and repair immediately
3. Check incoming vehicles and equipment (including delivery trucks, and employee and subcontractor vehicles) for leaking oil and fluids. Do not allow leaking vehicles or equipment onsite.
4. Always use secondary containment, such as a drain pan or drop cloth, to catch spills or leaks when removing or changing fluids.
5. Place drip pans or absorbent materials under paving equipment when not in use.
6. Use absorbent materials on small spills rather than hosing down or burying the spill. Remove the absorbent materials promptly and dispose of properly.
7. Promptly transfer used fluids to the proper waste or recycling drums. Don't leave full drip pans or other open containers lying around.

8. Oil filters disposed of in trashcans or dumpsters can leak oil and pollute stormwater. Place the oil filter in a funnel over a waste oil-recycling drum to drain excess oil before disposal. Oil filters can also be recycled. Ask the oil supplier or recycler about recycling oil filters.
9. Store cracked batteries in a non-leaking secondary container. Do this with all cracked batteries even if you think all the acid has drained out. If you drop a battery, treat it as if it is cracked. Put it into the containment area until you are sure it is not leaking.

Vehicle and Equipment Fueling

1. If fueling must occur on site, use designated areas, located away from drainage courses, to prevent the runoff of stormwater and the runoff of spills.
2. Discourage “topping off” of fuel tanks.
3. Always use secondary containment, such as a drain pan, when fueling to catch spills/leaks.

TCEQ FORM 0602
ATTACHMENT B – POTENTIAL SOURCES OF CONTAMINATION

A few of the potential sources of contamination that may occur during construction are:

1) Construction debris, trash, and litter from workers

Preventative Measure: Trash receptacles and/or dumpsters shall be located on site for disposal of waste. Contractor shall follow good housekeeping practices during construction, always cleaning up loose materials and trash as construction progresses.

2) Leaks from construction and other vehicles such as oil, grease, fuel, and hydraulic fluids

Preventative Measure: Vehicle maintenance, lubrication, and fueling shall be performed in a designated area within the construction staging areas that is monitored daily for contamination.

3) Tar, fertilizers, cleaning solvents, detergents, and petroleum based products.

Preventative Measure: The contractor shall be responsible for immediate cleanup should an unexpected rain occur that results in contamination from above listed products.

TCEQ FORM 0602
ATTACHMENT C – SEQUENCE OF MAJOR ACTIVITIES

The anticipated construction sequencing is as follows:

- 1) Install stabilized construction exit, silt fence, and tree protection per the Erosion Control Plan
- 2) Construct perimeter ditches to ensure sediment doesn't leave the site in accordance with the Erosion Control Plan and Grading Plan. Install Rock Check Dams as required as construction progresses.
- 3) Clear and grub the site
- 4) Complete rough grading of the site, including the batch detention pond berm, pavement subgrade, and building pad.
- 5) Install storm systems as necessary to promote positive drainage throughout construction. Install appropriate temporary BMP's as listed on the Erosion Control Plan as construction progresses. Install batch detention pond outlet and associated controls.
- 6) Install on-site utilities
- 7) Complete building pad and site paving.
- 8) Begin vertical construction
- 9) Revegetate disturbed areas
- 10) Install landscaping
- 11) Remove temporary erosion and sedimentation controls once the site is fully stabilized

TCEQ FORM 0602

ATTACHMENT D – TEMPORARY BEST MANAGEMENT PRACTICES AND MEASURES

Proposed temporary erosion control BMP's for this site include:

- 1) Silt Fence
- 2) Rock Check Dams
- 3) Stabilized Construction Entrance / Exit
- 4) Inlet Protection
- 5) Concrete Washout Area

The details for these BMP's, as well as the location and quantities of these BMP's can be seen on the Erosion Control Plan and Erosion Control Details located in the construction plan set in Appendix F of the Permanent Stormwater Control Section.

The purpose of the temporary stormwater BMP's is to minimize erosion and sediment discharge from the project site to receiving waters during construction. The contractor is responsible for the implementation of the Storm Water Pollution Prevention Plan (SWPPP) and is solely responsible for installation, implementation, maintenance, and effectiveness of all erosion control devices, and for updating the erosion control plan during construction as field conditions change. The erosion control devices shall remain in place until the area it protects has been permanently stabilized.

TCEQ FORM 0602
ATTACHMENT E – Request to Temporarily Seal a Feature

Not Applicable

TCEQ FORM 0602
ATTACHMENT F – Structural Practices

The following structural measures will be installed prior to site construction:

1. Silt Fence – Silt fence will be installed along the downstream end of the property
2. Rock Check Dams – Rock Check Dams will be installed in a similar manner to silt fence, although are used where storm water is channelized or a high flow-through rate is needed.
3. Stabilized Construction Entrance / Exit – will be placed at the ingress/egress location into the site to prevent the tracking of sediment onto the road.
4. Construction Staging Area – Contractor to locate a suitable location for their construction staging area for vehicle maintenance, fueling, lubrication, and storage of construction materials.
5. Concrete Washout Area- A concrete washout pit will be placed on site to provide containment and easier cleanup of waste from concrete operations.

TCEQ FORM 0602
ATTACHMENT G – DRAINAGE MAP

Temporary sediment basins are not required because there is less than 10 acres of land draining to a common drainage point. Silt fences, rock check dams, and other prior mentioned structural controls shall be used to limit pollutant discharges.

TCEQ FORM 0602

ATTACHMENT H – Temporary Sediment Pond(s) Plans and Calculations

Not Applicable

TCEQ FORM 0602
ATTACHMENT I – Inspection and Maintenance of BMPs

Contractors shall inspect all erosion control devices, BMPs, disturbed areas, and vehicle entry and exit areas weekly and within 24 hours of all rainfall events of 0.5 inches or greater, and keep a record of this inspection in the SWPPP booklet if applicable, to verify that the devices and erosion control plan are functioning properly. If a repair is necessary, it shall be performed before the next anticipated storm event but no later than seven calendar days after the surrounding exposed ground has dried sufficiently to prevent further damage from equipment. If maintenance prior to the next anticipated storm event is impracticable, maintenance must be scheduled and accomplished as soon as practicable.

Silt Fence Inspection and Maintenance:

1. Inspect all fencing weekly, and after any rainfall.
2. Remove sediment when buildup reaches 6 inches.
3. Replace any torn fabric or install a second line of fencing parallel to the torn section.
4. Replace or repair any sections crushed or collapsed in the course of construction activity. If a section of fence is obstructing vehicular access, consider relocating it to a spot where it will provide equal protection, but will not obstruct vehicles. A triangular filter dike may be preferable to a silt fence at common vehicle access points.
5. When construction is complete, the sediment should be disposed of in a manner that will not cause additional siltation and the prior location of the silt fence should be revegetated. The fence itself should be disposed of in an approved landfill.

Rock Check Dams Inspection and Maintenance:

1. Check dams should be inspected and checked for sediment accumulation after each runoff-producing storm event.
2. Sediment should be removed when it reaches one half of the original height of the measure.
3. Regular inspections should be made to ensure that the center of the dam is lower than the edges. Erosion caused by high flows around the edges of the dam should be corrected immediately.

Construction Entrance/Exit Inspection and Maintenance :

1. The entrance should be maintained in a condition, which will prevent tracking or flowing of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanout of any measures used to trap sediment.
2. All sediment spilled, dropped, washed or tracked onto public rights-of-way should be removed immediately by contractor.
3. When necessary, wheels should be cleaned to remove sediment prior to entrance onto public right-of-way.

4. When washing is required, it should be done on an area stabilized with crushed stone that drains into an approved sediment trap or sediment basin.
5. All sediment should be prevented from entering any storm drain, ditch or water course by using approved methods.

Concrete Washout Inspection and Maintenance:

1. After the concrete in the washout sets up, it can be broken up and disposed of properly
2. Inspect plastic lining for tears, holes, or defects, and replace if necessary.

Inlet Protection Inspection and Maintenance:

1. Inspection should be made weekly and after each rainfall. Repair or replacement should be made promptly as needed by the contractor.
2. Remove sediment when buildup reaches a depth of 3 inches. Removed sediment should be deposited in a suitable area and in such a manner that it will not erode.
3. Check placement of device to prevent gaps between device and curb.
4. Inspect filter fabric and patch or replace if torn or missing.
5. Structures should be removed and the area stabilized only after the remaining drainage area has been properly stabilized.

TCEQ FORM 0602

Attachment J - Schedule of Interim and Permanent Soil Stabilization Practices

The schedule of interim and permanent soil stabilization practices shall be as follows:

- 1) Installation and utilization of stabilization measures will begin as soon as practicable in any portion of the site where construction activities have either temporarily or permanently ceased. Stabilization measures must be initiated immediately, where construction activities have temporarily ceased and will not resume for a period exceeding 14 calendar days. The term "immediately" is used to define the deadline for initiating stabilization measures. In the context of this requirement, "immediately" means as soon as practicable, but no later than the end of the next work day, following the day when the earth- disturbing activities have temporarily or permanently ceased.
- 2) Temporary / Interim stabilization methods should be utilized in situations where development and/or construction practices have ceased temporarily, and permanent stabilization methods should be utilized after development and/or construction activities have been completed.
- 3) If an area is to be temporarily stabilized, that can be accomplished by spreading rapidly growing grasses by hydro-seeding or hydro-mulching. Other methods of temporary stabilization include the use of geo-textiles or mulching.
- 4) All sloped areas shall be hydromulched or sodded immediately after final grades have been established. Contractor shall be responsible for the establishment of adequate vegetation in disturbed areas. A minimum of 90% coverage of healthy vegetation will be required prior to completion of the project.
- 5) Permanent vegetation can be established through the use of sodding, hydro-mulching, or seeding. Seeding is very effective in controlling soil erosion once a vegetative cover of about 80% has been established. However, often seeding and fertilizing do not produce as thick a vegetative cover as do seed and mulch or netting. Newly established vegetation does not have as extensive a root system as existing vegetation and therefore is more prone to erosion, especially on steep slopes. Care should be taken when fertilizing to avoid untimely or excessive application. Since the practice of seeding and fertilizing does not provide any protection during the time of vegetative establishment, it should be used only on favorable soils in very flat areas and not in sensitive areas. Sodding, on the other hand, provides immediate stabilization of an area and should be used in critical areas or where establishment of permanent vegetation by seeding and mulching would be difficult. Sodding is also a preferred option when there is high erosion potential during the period of vegetative establishment from seeding.

Permanent Stormwater Section

Texas Commission on Environmental Quality

for Regulated Activities on the Edwards Aquifer Recharge Zone and Relating to 30 TAC §213.5(b)(4)(C), (D)(li), (E), and (5), Effective June 1, 1999

To ensure that the application is administratively complete, confirm that all fields in the form are complete, verify that all requested information is provided, consistently reference the same site and contact person in all forms in the application, and ensure forms are signed by the appropriate party.

Note: Including all the information requested in the form and attachments contributes to more streamlined technical reviews.

Signature

To the best of my knowledge, the responses to this form accurately reflect all information requested concerning the proposed regulated activities and methods to protect the Edwards Aquifer. This **Permanent Stormwater Section** is hereby submitted for TCEQ review and executive director approval. The application was prepared by:

Print Name of Customer/Agent: Landon Cole Allen, P.E.

Date: 07-16-2024

Signature of Customer/Agent



Regulated Entity Name: Hill Country Forensics

Permanent Best Management Practices (BMPs)

Permanent best management practices and measures that will be used during and after construction is completed.

1. ☒ Permanent BMPs and measures must be implemented to control the discharge of pollution from regulated activities after the completion of construction.
☐ N/A
2. ☒ These practices and measures have been designed, and will be constructed, operated, and maintained to insure that 80% of the incremental increase in the annual mass loading of total suspended solids (TSS) from the site caused by the regulated activity is removed. These quantities have been calculated in accordance with technical guidance prepared or accepted by the executive director.
☒ The TCEQ Technical Guidance Manual (TGM) was used to design permanent BMPs and measures for this site.

☐ A technical guidance other than the TCEQ TGM was used to design permanent BMPs and measures for this site. The complete citation for the technical guidance that was used is: _____

☐ N/A

3. ☒ Owners must insure that permanent BMPs and measures are constructed and function as designed. A Texas Licensed Professional Engineer must certify in writing that the permanent BMPs or measures were constructed as designed. The certification letter must be submitted to the appropriate regional office within 30 days of site completion.

☐ N/A

4. Where a site is used for low density single-family residential development and has 20 % or less impervious cover, other permanent BMPs are not required. This exemption from permanent BMPs must be recorded in the county deed records, with a notice that if the percent impervious cover increases above 20% or land use changes, the exemption for the whole site as described in the property boundaries required by 30 TAC §213.4(g) (relating to Application Processing and Approval), may no longer apply and the property owner must notify the appropriate regional office of these changes.

☐ The site will be used for low density single-family residential development and has 20% or less impervious cover.

☐ The site will be used for low density single-family residential development but has more than 20% impervious cover.

☒ The site will not be used for low density single-family residential development.

5. The executive director may waive the requirement for other permanent BMPs for multi-family residential developments, schools, or small business sites where 20% or less impervious cover is used at the site. This exemption from permanent BMPs must be recorded in the county deed records, with a notice that if the percent impervious cover increases above 20% or land use changes, the exemption for the whole site as described in the property boundaries required by 30 TAC §213.4(g) (relating to Application Processing and Approval), may no longer apply and the property owner must notify the appropriate regional office of these changes.

☐ **Attachment A - 20% or Less Impervious Cover Waiver.** The site will be used for multi-family residential developments, schools, or small business sites and has 20% or less impervious cover. A request to waive the requirements for other permanent BMPs and measures is attached.

☒ The site will be used for multi-family residential developments, schools, or small business sites but has more than 20% impervious cover.

☐ The site will not be used for multi-family residential developments, schools, or small business sites.

6. ☒ **Attachment B - BMPs for Upgradient Stormwater.**

- ☒ A description of the BMPs and measures that will be used to prevent pollution of surface water, groundwater, or stormwater that originates upgradient from the site and flows across the site is attached.
 - ☐ No surface water, groundwater or stormwater originates upgradient from the site and flows across the site, and an explanation is attached.
 - ☐ Permanent BMPs or measures are not required to prevent pollution of surface water, groundwater, or stormwater that originates upgradient from the site and flows across the site, and an explanation is attached.
7. ☒ **Attachment C - BMPs for On-site Stormwater.**
- ☒ A description of the BMPs and measures that will be used to prevent pollution of surface water or groundwater that originates on-site or flows off the site, including pollution caused by contaminated stormwater runoff from the site is attached.
 - ☐ Permanent BMPs or measures are not required to prevent pollution of surface water or groundwater that originates on-site or flows off the site, including pollution caused by contaminated stormwater runoff, and an explanation is attached.
8. ☐ **Attachment D - BMPs for Surface Streams.** A description of the BMPs and measures that prevent pollutants from entering surface streams, sensitive features, or the aquifer is attached. Each feature identified in the Geologic Assessment as sensitive has been addressed.
- ☒ N/A
9. ☒ The applicant understands that to the extent practicable, BMPs and measures must maintain flow to naturally occurring sensitive features identified in either the geologic assessment, executive director review, or during excavation, blasting, or construction.
- ☒ The permanent sealing of or diversion of flow from a naturally-occurring sensitive feature that accepts recharge to the Edwards Aquifer as a permanent pollution abatement measure has not been proposed.
 - ☐ **Attachment E - Request to Seal Features.** A request to seal a naturally-occurring sensitive feature, that includes, for each feature, a justification as to why no reasonable and practicable alternative exists, is attached.
10. ☒ **Attachment F - Construction Plans.** All construction plans and design calculations for the proposed permanent BMP(s) and measures have been prepared by or under the direct supervision of a Texas Licensed Professional Engineer, and are signed, sealed, and dated. The plans are attached and, if applicable include:
- ☒ Design calculations (TSS removal calculations)
 - ☒ TCEQ construction notes
 - ☒ All geologic features
 - ☒ All proposed structural BMP(s) plans and specifications
- ☐ N/A

11. ☒ **Attachment G - Inspection, Maintenance, Repair and Retrofit Plan.** A plan for the inspection, maintenance, repairs, and, if necessary, retrofit of the permanent BMPs and measures is attached. The plan includes all of the following:
- ☒ Prepared and certified by the engineer designing the permanent BMPs and measures
 - ☒ Signed by the owner or responsible party
 - ☒ Procedures for documenting inspections, maintenance, repairs, and, if necessary retrofit
 - ☒ A discussion of record keeping procedures
- ☐ N/A
12. ☐ **Attachment H - Pilot-Scale Field Testing Plan.** Pilot studies for BMPs that are not recognized by the Executive Director require prior approval from the TCEQ. A plan for pilot-scale field testing is attached.
- ☒ N/A
13. ☐ **Attachment I - Measures for Minimizing Surface Stream Contamination.** A description of the measures that will be used to avoid or minimize surface stream contamination and changes in the way in which water enters a stream as a result of the construction and development is attached. The measures address increased stream flashing, the creation of stronger flows and in-stream velocities, and other in-stream effects caused by the regulated activity, which increase erosion that results in water quality degradation.
- ☒ N/A

Responsibility for Maintenance of Permanent BMP(s)

Responsibility for maintenance of best management practices and measures after construction is complete.

14. ☒ The applicant is responsible for maintaining the permanent BMPs after construction until such time as the maintenance obligation is either assumed in writing by another entity having ownership or control of the property (such as without limitation, an owner's association, a new property owner or lessee, a district, or municipality) or the ownership of the property is transferred to the entity. Such entity shall then be responsible for maintenance until another entity assumes such obligations in writing or ownership is transferred.
- ☐ N/A
15. ☒ A copy of the transfer of responsibility must be filed with the executive director at the appropriate regional office within 30 days of the transfer if the site is for use as a multiple single-family residential development, a multi-family residential development, or a non-residential development such as commercial, industrial, institutional, schools, and other sites where regulated activities occur.
- ☐ N/A

TCEQ FORM 0600
ATTACHMENT A – 20% OR LESS IMPERVIOUS COVER WAIVER

Not Applicable

TCEQ FORM 0600
ATTACHMENT B – BMPs FOR UPGRADIENT STORMWATER

Stormwater from a small portion of the ROW sheet flows through the site. However, since there is work within the ROW as part of the project (driveway, sidewalk, utilities), that portion of the ROW is considered a part of the project site and is not considered offsite stormwater. The stormwater from the ROW enters the site and is conveyed to the batch detention pond system. The batch detention pond system is discussed in Attachment C.

TCEQ FORM 0600
ATTACHMENT C – BMPs FOR ON-SITE STORMWATER

A batch detention pond system will be constructed to prevent pollution of surface water that originates on-site or flows off site. The batch detention pond is designed in accordance with TCEQ RG-348 Addendum Section 3.2.17. A batch detention system removes sediment from stormwater in a manner similar to an extended detention basin, in that it captures stormwater, allows particulates to settle out, and then after a set amount of time (12 hours), a valve is opened that allows stormwater to leave the pond. In this particular case, the batch detention pond controller/outlet system is a SmartPond Valve system, which is a product produced by Construction Eco Services that contains a perforated riser with trash rack for an outlet, a controller, actuator, valve, and solar power source to provide a complete batch detention pond outlet solution. The riser/trash rack also has a sediment measure marker built into it. The system also provides real time data for the owner concerning water level, valve position, temperature, maintenance alerts, etc. The batch detention system has a TSS removal percentage of 91%. See the TSS Removal Calculations for further information.

TCEQ FORM 0600
ATTACHMENT D – BMPs FOR SURFACE STREAMS

Not applicable

TCEQ FORM 0600
ATTACHMENT E – REQUEST TO SEAL A FEATURE

Not applicable

TCEQ FORM 0600
ATTACHMENT F – CONSTRUCTION PLANS

OWNER
DR. SATISH CHUNDRU
HILL COUNTRY FORENSICS LLC
PHONE: (305) 239-5755

ARCHITECT
JEREMY KOOMLER
FRAMEWORK ARCHITECTS
PHONE: (512) 765-2599
EMAIL: JEREMY@FRAMEWORKS.COM

MEP
RICHARD SNIFF, P.E.
POWER FORWARD
PHONE: (512) 956-2971
EMAIL: RICHARD@POWERFORWARDENG.COM

CIVIL
COLE ALLEN, P.E.
AKRON CONSULTING LLC
PHONE: (903) 452-0637
EMAIL: COLEA@AKRON-CONSULTING.COM

LEGAL DESCRIPTION:
LOT 5 OF THE RESOURCE COMMERCIAL PARK, A SUBDIVISION IN WILLIAMSON COUNTY, TEXAS, ACCORDING TO THE MAP OR PLAT THEREOF RECORDED IN CABINET O, SLIDE 174 OF THE PLAT RECORDS OF WILLIAMSON COUNTY, TEXAS.

FLOODPLAIN INFORMATION:
NO PORTION OF THIS TRACT IS WITHIN THE LIMITS OF THE 100-YEAR FLOODPLAIN AS DEPICTED ON THE FEMA FLOOD INSURANCE RATE MAP PANEL NO. 48491CO285F, DATED DECEMBER 20, 2019 FOR WILLIAMSON COUNTY, TEXAS.

EDWARDS AQUIFER NOTE:
THE PROJECT IS LOCATED WITHIN THE EDWARDS AQUIFER RECHARGE ZONE.

PROPOSED USE:
OFFICE

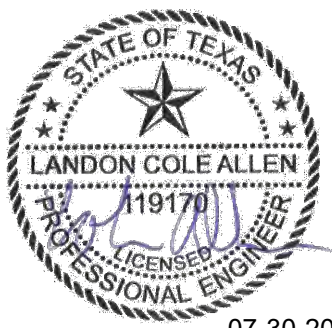
ACREAGE:
2.788 AC

TOTAL IMPERVIOUS COVER:
EXISTING: 0.1 ACRES (0%)
PROPOSED: 0.88 ACRES (32%)

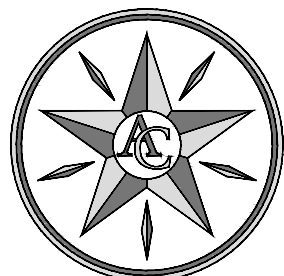
FIRE DEPARTMENT:
GEORGETOWN FIRE DEPARTMENT
3500 DB WOOD RD.
GEORGETOWN, TEXAS 78628
(512) 930-3473

ELECTRICITY, WATER & WASTEWATER:
GEORGETOWN UTILITY SYSTEMS
300-1 INDUSTRIAL AVENUE
GEORGETOWN, TX 78626
(512) 930-3555

BENCH MARK LIST	
BM# 1	PK NAIL SET IN EDGE OF THE NORTH SIDE OF MARKET STREET, IN LINE WITH THE WESTERN PROPERTY BOUNDARY OF THE SITE. N=10,225.822.20 E=3,139.939.93 ELEV=689.56
BM# 2	PK NAIL SET IN EDGE OF THE NORTH SIDE OF MARKET STREET, IN LINE WITH THE EASTERN PROPERTY BOUNDARY OF THE SITE. N=10,225.670.16 E=3,140.218.62 ELEV=687.44



PREPARED BY:

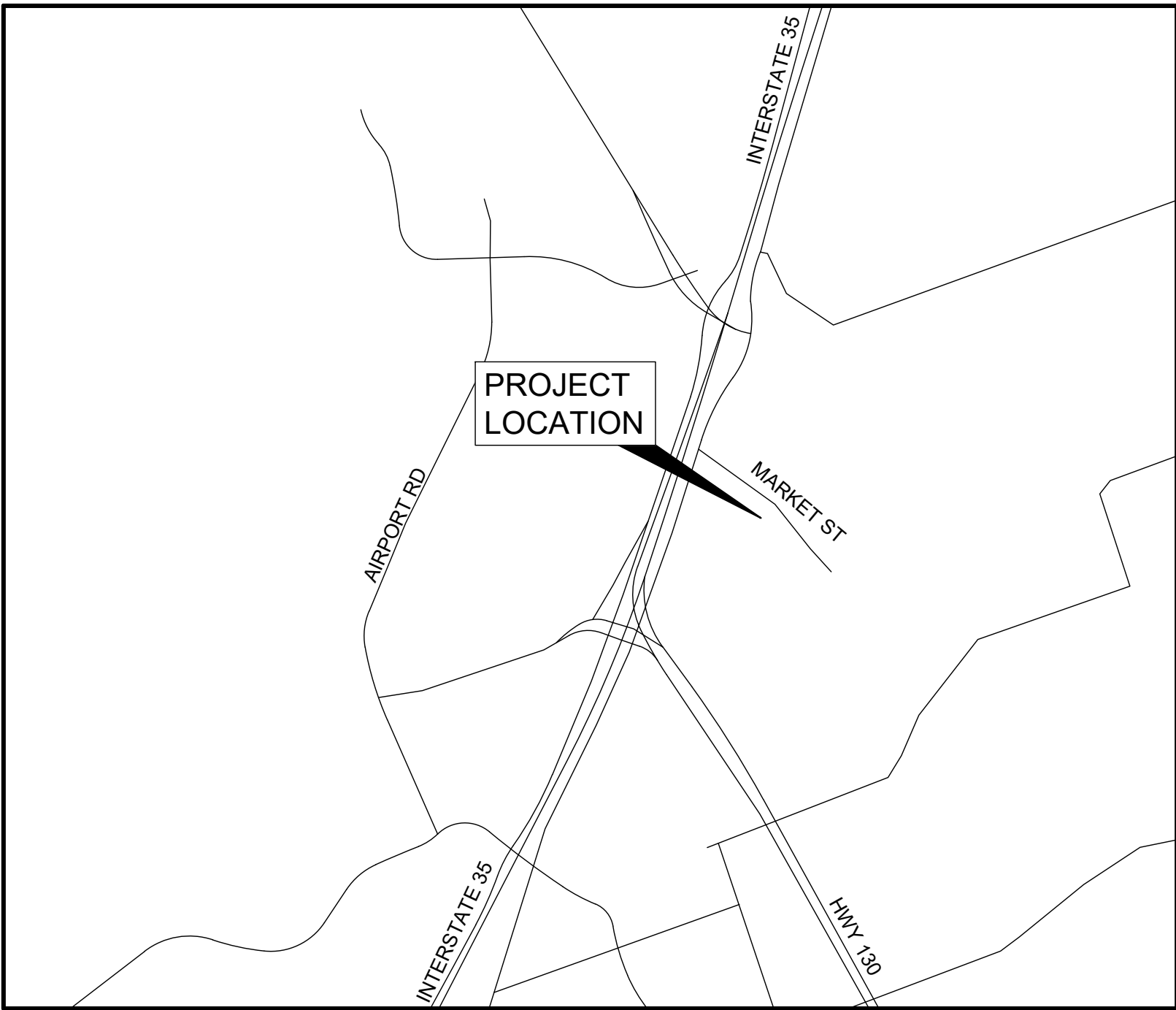


AKRON CONSULTING, LLC.
431 N. CENTER ST.
LONGVIEW, TX 75601
TBPE Firm Reg. # 14014
903-720-7822
www.akron-consulting.com

CIVIL PLANS FOR FORENSIC SPACES

136 MARKET ST
GEORGETOWN, TX 78626

2024-XX-SWP



VICINITY MAP

SCALE: 1" = 1 MI

CITY OF GEORGETOWN NOTES:

- THESE PLANS WERE PREPARED, SEALED, SIGNED AND DATED BY A TEXAS LICENSED PROFESSIONAL ENGINEER. THEREFORE, BASED ON THE ENGINEER'S CONCURRENCE OF COMPLIANCE, THE PLANS FOR CONSTRUCTION OF THE PROPOSED PROJECT ARE HEREBY APPROVED SUBJECT TO THE STANDARD CONSTRUCTION SPECIFICATIONS AND DETAILS MANUAL AND ALL OTHER APPLICABLE CITY, STATE AND FEDERAL REQUIREMENTS AND CODES.
- THIS PROJECT IS SUBJECT TO ALL CITY STANDARD SPECIFICATIONS AND DETAILS IN EFFECT AT THE TIME OF SUBMITTAL OF THE PROJECT TO THE CITY.
- THIS PROJECT IS SUBJECT TO THE WATER QUALITY REGULATIONS OF THE CITY OF GEORGETOWN.
- WHERE NO EXISTING OVERHEAD INFRASTRUCTURE EXISTS, UNDERGROUND ELECTRIC UTILITY LINES SHALL BE LOCATED ALONG THE STREET AND WITHIN THE SITE. WHERE EXISTING OVERHEAD INFRASTRUCTURE IS TO BE RELOCATED, IT SHALL BE REINSTALLED UNDERGROUND AND THE EXISTING FACILITIES SHALL BE REMOVED AT THE DISCRETION OF THE DEVELOPMENT ENGINEER.
- ALL ELECTRIC AND COMMUNICATION INFRASTRUCTURE SHALL COMPLY WITH UDC SECTION 13.06.

EDWARDS AQUIFER NOTES:

- THE PROPERTY SUBJECT TO THIS APPLICATION IS SUBJECT TO THE WATER QUALITY REGULATIONS OF THE CITY OF GEORGETOWN.
- A GEOLOGIC ASSESSMENT, IN ACCORDANCE WITH THE CITY OF GEORGETOWN WATER QUALITY REGULATIONS, WAS COMPLETED ON APRIL 19, 2024. ANY SPRINGS AND STREAMS AS IDENTIFIED IN THE GEOLOGIC ASSESSMENT ARE SHOWN HEREIN.

SHEETS

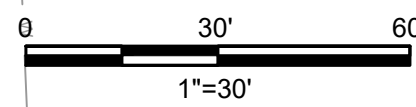
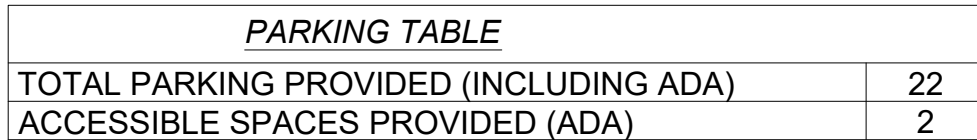
Sheet Number	Sheet Title
C0.0	COVER
C0.1	EXISTING SURVEY
C1.0	DEMOLITION PLAN
C2.0	SITE PLAN
C2.1	DIMENSIONAL CONTROL PLAN
C2.2	PAVING PLAN
C2.3	SITE DETAILS
C3.0	GRADING PLAN
C3.1	STORM SEWER PLAN
C3.2	STORM SEWER PROFILES
C3.2	STORM SEWER CALCS
C3.3	STORM SEWER DETAILS
C4.0	EXISTING DRAINAGE AREA MAP
C4.1	PROPOSED DRAINAGE AREA PLAN
C4.2	PROPOSED DRAINAGE AREA PLAN FOR STRUCTURES
C5.0	DETENTION AND WATER QUALITY POND PLAN
C5.1	DETENTION AND WATER QUALITY POND SECTIONS
C5.2	WATER QUALITY CALCULATIONS
C5.3	WATER QUALITY DETAILS
C5.4	WATER QUALITY DETAILS
C5.5	WATER QUALITY DETAILS
C6.0	UTILITY PLAN
C6.1	WATER DETAILS
C6.2	WATER DETAILS
C6.3	WASTEWATER DETAILS
C7.0	EROSION CONTROL PLAN
C7.1	EROSION CONTROL DETAILS
C8.0	LANDSCAPE PLAN

ORIGINAL SUBMITTAL DATE: XXXX (XXXX)

REVISIONS/CORRECTIONS

NO.	DESCRIPTION	REVISE (R) ADD (A) VOID (V) SHEET NO.S	TOTAL # SHEETS IN PLAN SET	NET CHANGE TO IMP. COVER (sq. ft.)	TOTAL SITE IMP. COVER (sq. ft.) (%)	CITY OF GEORGETOWN APPROVAL/DATE	DATE IMAGED

JULY 2024



VICINITY MAP

NOT TO SCALE

1. PRIOR TO STARTING CONSTRUCTION, THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THAT ALL NECESSARY PERMITS AND APPROVALS HAVE BEEN OBTAINED (INCLUDING SWPPP). NO CONSTRUCTION SHALL BEGIN UNTIL ALL PERMITS HAVE BEEN RECEIVED. ALL NECESSARY INSPECTIONS AND APPROVALS MUST BE OBTAINED PRIOR TO BEING PERFORMED PRIOR TO SUBSTANTIAL PROJECT COMPLETION.

2. IF THE CONTRACTOR, IN THE COURSE OF THE WORK, FINDS ANY DISCREPANCIES BETWEEN THE PLANS AND THE PHYSICAL CONDITIONS OF THE LOCALITY, OR ANY ERRORS OR OMISSIONS IN THE PLANS OR IN THE LAYOUT AS GIVEN BY THE ENGINEER, IT SHALL BE HIS DUTY TO IMMEDIATELY INFORM THE ENGINEER, IN WRITING, AND THE ENGINEER WILL PROMPTLY VERIFY THE SAME. ANY WORK DONE AFTER SUCH DISCOVERY IS UNAUTHORIZED AND AT THE CONTRACTOR'S RISK.

3. CONTRACTOR SHALL BE RESPONSIBLE FOR DOCUMENTING ALL EXISTING DAMAGE AND NOTIFY OWNER AND/OR ENGINEER PRIOR TO STARTING CONSTRUCTION.

4. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR REPAIRING ANY ITEMS DAMAGED DURING CONSTRUCTION SUCH AS, BUT NOT LIMITED TO, DRAINAGE, UTILITIES, PAVEMENT, STRIPING, CURB, ETC. DAMAGES SHALL BE REPAIRED TO ORIGINAL CONDITION OR BETTER PRIOR TO BEGINNING CONSTRUCTION.

5. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL SETBACKS, EASEMENTS, AND DIMENSIONS SHOWN HEREON BEFORE BEGINNING CONSTRUCTION.

6. ALL CONSTRUCTION MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THESE CONSTRUCTION DOCUMENTS, ANY DOCUMENTS REFERENCED, AND THE LATEST CONSTRUCTION SPECIFICATIONS AND DETAILS FROM THE STATE OF TEXAS AUTHORITY HAVING JURISDICTION. CONTRACTOR SHALL NOTIFY ENGINEER PRIOR TO ANY MODIFICATIONS.

7. THE CONTRACTOR SHALL CAREFULLY PRESERVE BENCHMARKS, REFERENCE POINTS, STAKES, AND PROPERTY CORNERS, ANY DAMAGE TO SURVEY MARKERS BY THE CONTRACTOR SHALL BE REPLACED BY AN RPLS AT THE CONTRACTOR'S EXPENSE.

8. CONTRACTOR SHALL MAINTAIN THE SITE IN A MANNER TO PREVENT INJURY TO WORKMEN AND THE PUBLIC AND TO PREVENT DAMAGE ON ADJOINING PROPERTY. ANY DAMAGE TO SUBJECT OR ADJOINING PROPERTY DURING CONSTRUCTION SHALL BE REPAIRED TO THE PRE-CONSTRUCTION CONDITIONS, OR BETTER, AT THE EXPENSE OF THE CONTRACTOR.

9. CONTRACTOR IS RESPONSIBLE FOR DAMAGE TO ANY EXISTING ITEM AND/OR MATERIAL INSIDE OR OUTSIDE OF THE PROJECT LIMITS DUE TO THE CONSTRUCTION OPERATION.

10. CONTRACTOR SHALL CONTACT DIGEST (811) PRIOR TO ANY CONSTRUCTION ACTIVITIES.

11. CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES.

12. CONTRACTOR TO VERIFY RELATIVE ELEVATIONS OF BENCHMARKS SHOWN ARE WITHIN 0.1 FT OF ELEVATION SHOWN ON THE CONSTRUCTION DOCUMENTS. IF ANY ADDITIONAL BENCHMARKS, THEY SHALL BE ESTABLISHED WITH A HORIZONTAL AND VERTICAL TOLERANCE OF 0.1 FT.

13. DIMENSIONS SHOWN ARE FROM FACE OF CURB TO CURB OF CURB, UNLESS OTHERWISE NOTED.

14. STRIPING DIMENSIONS ARE SHOWN CENTER TO CENTER, UNLESS OTHERWISE NOTED.

15. ALL WALLS AND PROPER BACKFILL TO BE DESIGNED BY OTHERS.

16. THIS IS AN ADOPTED CERTIFICATE OF THE STATE OF TEXAS. IF ANY WALL OR ASSOCIATED CONSTRUCTION, IF THE ELEVATIONS SHOWN CONFLICT WITH THE STRUCTURAL DESIGN, CONTACT THE ENGINEER IMMEDIATELY.

17. BARRICADING, TRAFFIC CONTROL, AND PROJECT SIGNS SHALL CONFORM TO TEXAS DEPARTMENT OF TRANSPORTATION STANDARDS AND THE MOST RECENT EDITION OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

18. CONTRACTOR SHALL MEET ALL OSHA REQUIREMENTS FOR TRENCH SAFETY.

19. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF BUILDING FOOTPRINT, LOCATION AND SIZE OF DOWNSPOUTS, AND ANY OTHER APPURTENANCES CONNECTED TO THE BUILDING.

20. REFER TO ARCHITECTURAL PLANS FOR ADA STRIPING AND SIGNAGE SPECIFICATIONS, ALL HANDICAPPED ACCESSIBLE SITE FEATURES SHALL BE CONSTRUCTED TO MEET ALL CODES AND COMPLY WITH THE LATEST REVISION OF THE ADA REGULATIONS, AND THE TEXAS ACCESSIBILITY STANDARDS.

21. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS AND FINAL GEOTECH REPORT FOR BUILDING SUBGRADE PREPARATION REQUIREMENTS.

22. CONTRACTOR SHALL ADJUST EXISTING VALVES, MANHOLE RIMS, ETC. AS NECESSARY TO MATCH FINISHED GRADE.

23. ALL DISTURBED GRASS AREAS SHALL BE REPLACED.

24. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING PROPER DRAINAGE THROUGHOUT THE SITE DURING CONSTRUCTION. CARE SHALL BE TAKEN TO PREVENT ANY NEGATIVE IMPACTS TO ADJACENT PROPERTIES.

25. CONTRACTOR SHALL CAREFULLY MONITOR WEATHER PATTERNS AND PREPARE FOR EXPECTED EVENTS. DRAINAGE SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD TO PREVENT ANY DAMAGE TO THE WORKSITE.

26. NO HAZARDOUS MATERIALS WERE IDENTIFIED DURING PRELIMINARY SITE INVESTIGATIONS. ANY ITEMS FOUND SUSPECT DURING CONSTRUCTION SHOULD BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.

1. THERE MAY BE NUMEROUS UNDERGROUND UTILITIES IN THE LINE OF WORK, SUCH AS WATER, SEWER, GAS, PIPELINE, TELEPHONE AND ELECTRIC. SOME MAY BE ABANDONED WHILE MANY ARE ACTIVE. EXISTING UTILITIES SHOWN ON THE PLANS REPRESENT A DILIGENT EFFORT TO SHOW THEIR APPROXIMATE LOCATION. THIS INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE.
2. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN CONDUCTING EXCAVATION OPERATIONS. DAMAGES SHALL BE REPAIRED IMMEDIATELY AT CONTRACTOR'S EXPENSE.
3. THE CONTRACTOR MUST CONTACT THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST FIELD LOCATION OF UTILITIES.

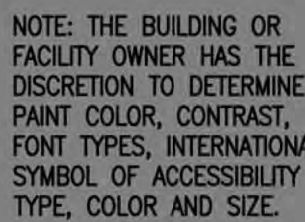
1. REFER TO ARCHITECTURAL/MEP BUILDING PLANS FOR SITE LIGHTING ELECTRICAL PLAN
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE INSTALLATION OF THE PRIMARY ELECTRICAL LINES TO BE INSTALLED BY ELECTRIC COMPANY.
3. THE ELECTRIC COMPANY/MEP WILL BE RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF ALL PRIMARY LINES AND TRANSFORMER.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING THE TELEPHONE CONDUIT WITH FULL STRING. ALL BENDS SHALL BE LONG RADIUS SWEEPING BENDS. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING TELEPHONE INSTALLATION WITH THE TELEPHONE COMPANY.
5. TELEPHONE COMPANY WILL INSTALL THE UNDERGROUND TELEPHONE CABLE FROM THE END OF THE CONTRACTOR INSTALLED CONDUITS AT THE BUILDING TO THE CONNECTION AT THE POLE AND/OR EXISTING LINES.
6. CONTRACTOR SHALL INSTALL GALVANIZED PULL WIRE OR PURPLE PROPYL/POLYETHYLENE ROPE WITH A MINIMUM PULLING TENSION OF 100 POUNDS IN ALL CONDUIT.

68.104. Accessible Parking Spaces

(a) A paved accessible parking space must include:

- (1) the International Symbol of Accessibility painted conspicuously on the surface in a color that contrasts the pavement;
- (2) the words "NO PARKING" painted on any accessible aisle adjacent to the parking space. The words must be painted:
 - (A) in all capital letters;
 - (B) with a letter height of at least twelve inches, and a stroke width of at least two inches; and
 - (C) centered within each access aisle adjacent to the parking space;
- (3) a sign identifying the consequences of parking illegally in a paved accessible parking space. The sign must:
 - (A) at a minimum state "Violators Subject to Fine and Towing" in a letter height of at least one inch;
 - (B) be mounted on a pole, post, wall or freestanding board;
 - (C) be no more than eight inches below a sign required by Texas Accessibility Standards, 502.6; and
 - (D) be installed so that the bottom edge of the sign is no lower than 48 inches and no higher than 80 inches above ground level.

(b) A paved space identification sign that complies with Texas Accessibility Standards, 502.6, that includes the requirements in subsection (a)(3)(A) satisfies subsection (a)(3).



12" MIN. CHARACTER HEIGHT
AND 2" MIN. STROKE WIDTH



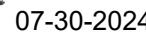
SYMBOL IS REQUIRED —
AND MUST BE CLEARLY
PAINTED IN A
CONTRASTING COLOR

THE WORDS "NO PARKING" —
PAINTED IN CAPITAL LETTERS
MUST BE CENTERED IN THE
ACCESS AISLE



NEW SIGN REQUIRED TO INCLUDE THE LANGUAGE "VIOLATORS SUBJECT TO FINE AND TOWING" IN 1" MINIMUM HIGH LETTERS, BOTH SIGNS MAY BE COMBINED

— SIGNS MUST BE MOUNTED ON
A POLE, WALL OR
FREESTANDING BOARD



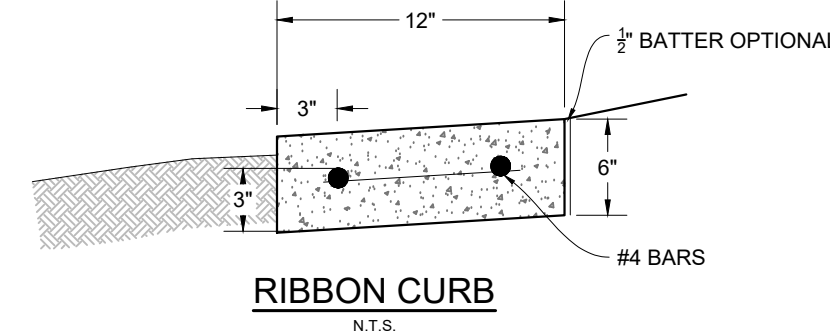
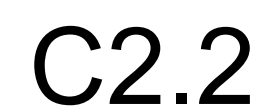
136 MARKET STREET | GEORGETOWN, TX 78626

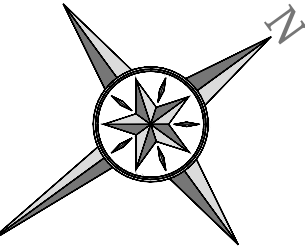
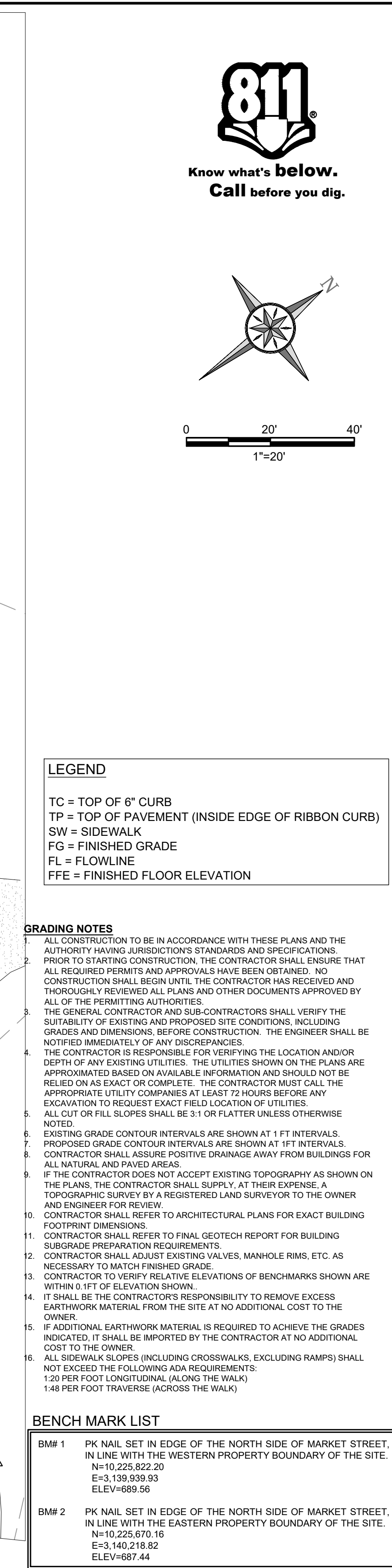
SITE PLAN

[illegible]

DRAWN BY:
APPROVED BY:
DATE: 7/30/2024
DWG NAME: C2.0 SITE PLAN.DWG
JOB NO:

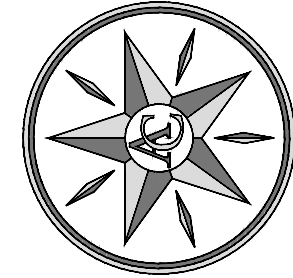
C2.0





0 20' 40'

1"=20'



AKRON CONSULTING, LLC.
431 N. CENTER ST.
LONGVIEW, TX 75601
TBPE Firm Reg. # 14014
(O) 903-720-4822
www.akron-consulting.com



07-30-2024

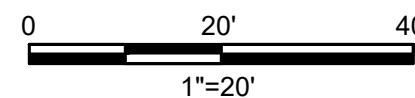
FORENSIC SPACES
136 MARKET STREET | GEORGETOWN, TX 78626

GRADING PLAN

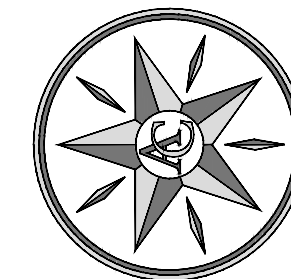
[illegible]

DRAWN BY:
APPROVED BY:
DATE: 7/30/2024
DWG NAME: C3.0 GRADING PLAN.DWG
JOB NO:

C3.0



AKRON CONSULTING, LLC.
431 N. CENTER ST.
LONGVIEW, TX 75601
TBPE Firm Reg. # 14014
(O) 903-720-4822
www.akron-consulting.com



07-30-2024

FORENSIC SPACES
136 MARKET STREET | GEORGETOWN, TX 78626

STORM SEWER PLAN

1. TRENCH SAFETY AND ALL CONSTRUCTION SITE SAFETY, IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR WHO CONTROLS THE MEANS, METHODS, AND SEQUENCING OF CONSTRUCTION OPERATIONS. UNDER NO CIRCUMSTANCES SHALL THE INFORMATION PROVIDED HEREIN BE INTERPRETED TO MEAN THE DESIGN TEAM (AKRON) IS ASSUMING RESPONSIBILITY FOR CONSTRUCTION SITE SAFETY OR THE CONTRACTOR'S ACTIVITIES; SUCH RESPONSIBILITY SHALL NEITHER BE IMPLIED NOR INFERRED.
2. WHERE OPEN TRENCH OPERATIONS OBSTRUCT NORMAL TRAFFIC FLOW, THE CONTRACTOR SHALL NOTIFY ALL AFFECTED BUSINESS AND PROPERTY OWNERS AT LEAST 72 HOURS PRIOR TO BEGINNING CONSTRUCTION.
3. THE CONTRACTOR SHALL NOTIFY THE CITY AT LEAST 72 HOURS PRIOR TO INSTALLING ALL SANITARY SEWER AND/OR WATER TAPS.
4. ANY SOFT OR UNSUITABLE MATERIALS ENCOUNTERED AT THE BOTTOM OF UTILITY TRENCH EXCAVATIONS SHOULD BE REMOVED AND REPLACED WITH STRUCTURAL FILL OR BEDDING MATERIAL IN ACCORDANCE WITH THE SPECIFICATIONS FOR THE UTILITY BE SUPPORTED.
5. TRENCH BACKFILL SHALL BE INSTALLED WITH MECHANICAL TAMP FOR FULL DEPTH OF THE TRENCH WHEN WORKING IN PAVEMENT SECTIONS. CONTRACTOR SHALL COMPACT BACKFILL IN MAXIMUM 6 INCH LIPS. ONE DENSITY AND WATER CONTENT TEST SHOULD BE PERFORMED FOR EVERY 50 LINEAR FEET OF COMPACTED UTILITY TRENCH BACKFILL.
6. UTILITY TRENCHES IN PAVEMENT AREAS BE BACKFILLED WITH CEMENT TREATED SAND IN ORDER TO REDUCE THE POTENTIAL FOR SETTLEMENT OF THE BACKFILL.
7. MAINTAIN A MINIMUM OF 24" VERTICAL CLEARANCE BETWEEN WATER LINES, SANITARY LINE, STORM LINES AND GAS LINES (EXISTING AND PROPOSED) UNLESS SHOWN OTHERWISE.
8. ALL BORING PITS SHALL BE CLOSED THE SAME DAY THEY ARE OPENED UNLESS APPROVED BY ENGINEER. ANY PIT LEFT OPEN OVERNIGHT SHALL BE PROPERLY BARRICADED IN ACCORDANCE WITH TxDOT AND OSHA GUIDELINES.
9. CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES IN SUCH A MANNER AS TO AVOID CONFLICTS AND ASSURE PROPER DEPTHS ARE ACHIEVED.
10. ALL STEEL ENCASEMENT PIPE SHALL BE SCH. 40, UNLESS NOTED OTHERWISE.

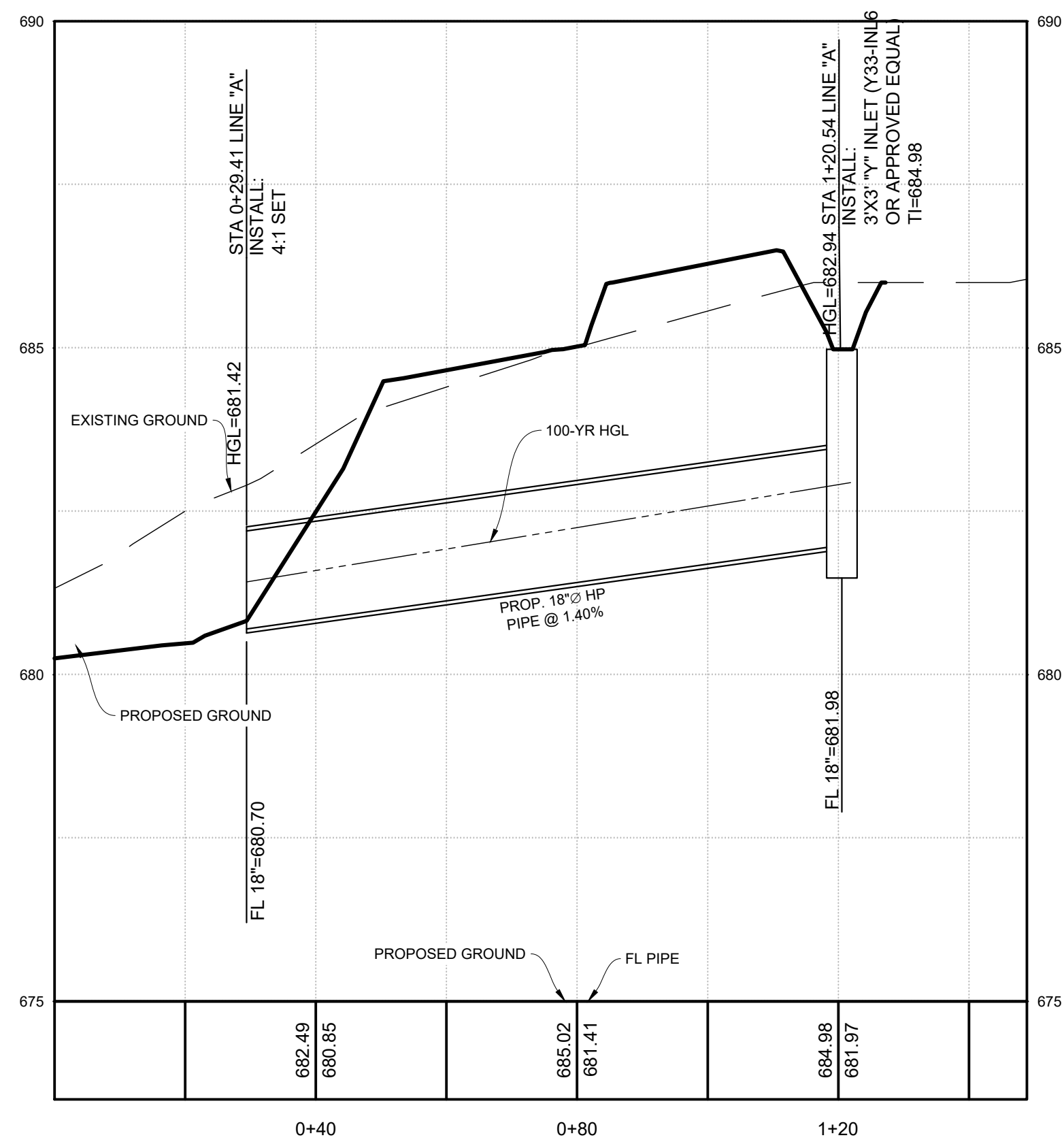
[illegible]

DRAWN BY:
APPROVED BY:
DATE: 7/30/2024
DWG NAME: C3.1 STORM SEWER PLAN.DWG
JOB NO:

C3.1

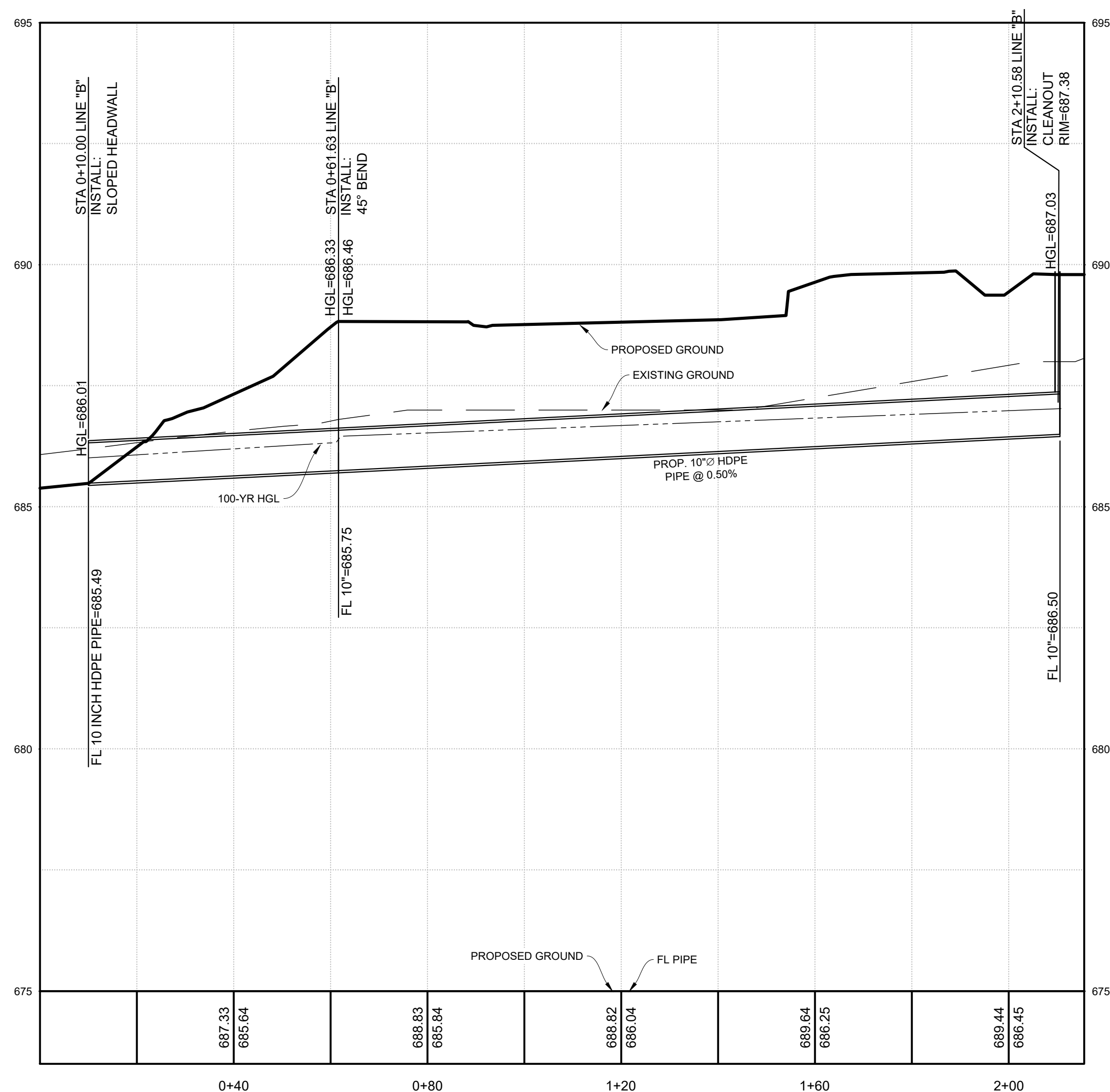


Know what's below.
Call before you dig.



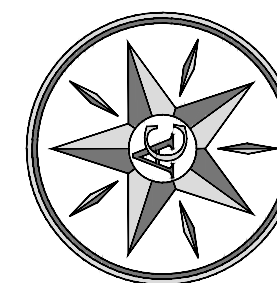
STORM "A" PROFILE VIEW

HORIZ SCALE: 1"=20'
VERT SCALE: 1" = 2'



STORM "B" PROFILE VIEW

HORIZ SCALE: 1"=20'
VERT SCALE: 1" = 2'



AKRON CONSULTING, LLC.
431 N. CENTER ST.
LONGVIEW, TX 75601
TBPE Firm Reg. # 14014
(903) 903-720-4822
www.akronconsulting.com



07-30-2024

FORENSIC SPACES

136 MARKET STREET | GEORGETOWN, TX 78626

STORM SEWER PROFILES

[illegible]

DRAWN BY:
APPROVED BY:
DATE: 7/30/2024
DWG NAME: C3.1 STORM SEWER PLAN.DWG
JOB NO:

C3.2



STORM A CALCULATIONS													
LINE	DOWNSTREAM LINE	SIZE (IN)	LENGTH (FT)	SLOPE (%)	FLOWLINE UP	FLOWLINE DOWN	CAPACITY (CFS)	FLOW RATE (CFS)	HGL UP	HGL DOWN (FT)	HGL JUNCT	VELOCITY UP (FT/S)	VELOCITY DOWN (FT/S)
1	Outfall	18	91.131	1.40	681.98	680.70	13.48	6.23	682.94	681.42	682.94	5.19	7.48

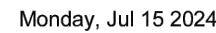
STORM B CALCULATIONS													
LINE	DOWNSTREAM LINE	SIZE (IN)	LENGTH (FT)	SLOPE (%)	FLOWLINE UP	FLOWLINE DOWN	CAPACITY (CFS)	FLOW RATE	HGL UP	HGL DOWN (FT)	HGL JCT	VELOCITY UP (FT/S)	VELOCITY DOWN (FT/S)
1	Outfall	10	51.631	0.50	685.75	685.49	1.68	1.33	686.33	686.01	686.46	3.26	3.72
2	1	10	148.955	0.50	686.50	685.75	1.68	1.33	687.03	686.46	687.24	3.66	2.69

- 1) SEE PROPOSED DRAINAGE AREA PLAN FOR STRUCTURES FOR RATIONAL METHOD HYDROLOGIC CALCULATIONS.
- 2) THE 100-YEAR FLOW VALUES WERE MODELED FOR THE STORM SYSTEMS AND FOR THE DRAINAGE SWALES IN AN EFFORT TO BE CONSERVATIVE.

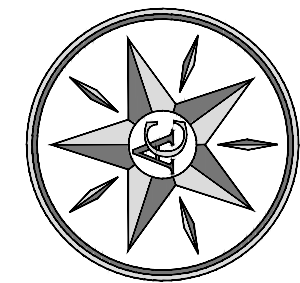
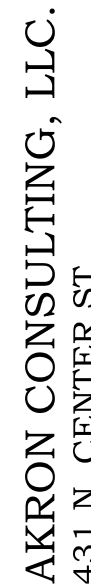
Tuesday, Jun 25 2024

Highlighted

Depth (ft)	= 0.44
Q (cfs)	= 4.130
Area (sqft)	= 2.32
Velocity (ft/s)	= 1.78
Wetted Perim (ft)	= 10.63
Crit Depth, Yc (ft)	= 0.38
Top Width (ft)	= 10.56
EGL (ft)	= 0.49

$$\text{EGL (ft)} = 0.49$$


Highlighted	
Depth (ft)	= 0.33
Q (cfs)	= 6.230
Area (sqft)	= 3.88
Velocity (ft/s)	= 1.61
Wetted Perim (ft)	= 20.55
Crit Depth, Yc (ft)	= 0.28
Top Width (ft)	= 20.49
EGL (ft)	= 0.37

$$\text{EGL (ft)} = 0.37$$


07-30-2024

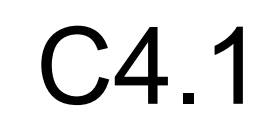
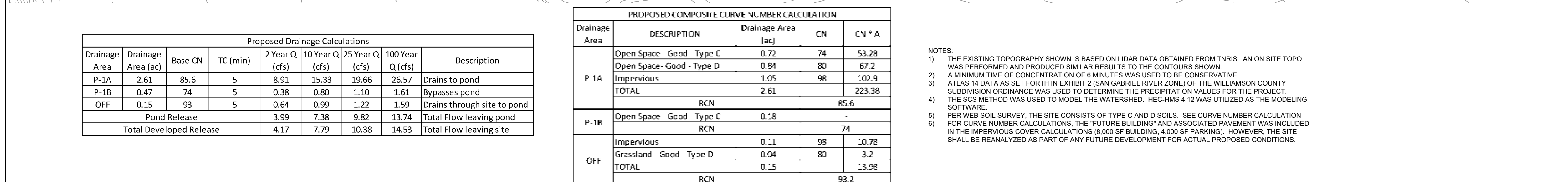
FORENSIC SPACES

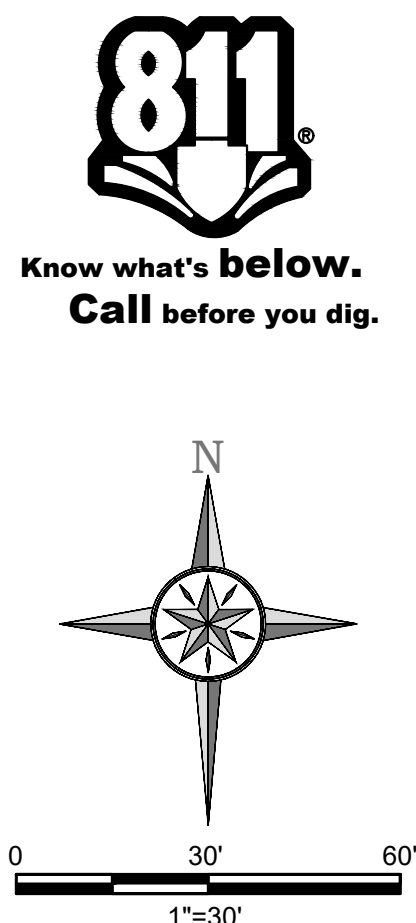
STORM SEWER CALCS

[illegible]

DRAWN BY:	
APPROVED BY:	
DATE:	7/30/2024
DWG NAME:	C3.1 STORM SEWER PLAN.DWG
JOB NO:	

C3.2



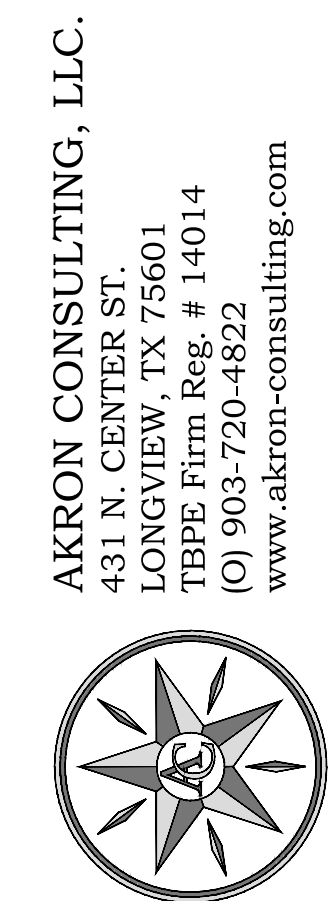


Drainage Area	DESCRIPTION	Drainage Area (ac)	CN	CN * A
A1	Impervious	0.29	0.97	0.27692
	Grassland	0.32	0.36	0.11550
	TOTAL	0.61		0.39243
	Composite C			0.65
B1	Impervious	0.18	0.97	0.17315
	Grassland	0.48	0.36	0.17338
	TOTAL	0.66		0.34649
	Composite C			0.52
C1	Impervious	0.12	0.97	
	Composite C			0.97
D1	Impervious	0.35	0.97	0.34003
	Grassland	0.51	0.36	0.18278
	TOTAL	0.86		0.52277
	Composite C			0.61

Rational Method Calculations for Storm								
Drainage Area ID	Area (Ac)	Tc (Min)	C	i_{25} (in/hr)	Q_{25} (CFS)	i_{100} (in/hr)	Q_{100} (CFS)	Description
A1	0.61	5	0.68	9.84	4.06	11.88	4.90	Partial to Storm "A"
B1	0.66	5	0.62	9.84	3.42	11.88	4.13	
C1	1.2	5	0.97	9.84	1.10	11.88	1.33	Total to Storm "B"
D1	0.87	5	0.61	9.84	5.22	11.88	6.30	Total to Storm "D"
A1+C1					5.16		6.23	Total To Storm "A"

NOTES:

- 1) THE EXISTING TOPOGRAPHY SHOWN IS BASED ON LIDAR DATA OBTAINED FROM TNIRIS. AN ON SITE TOPO SURVEY PERFORMED AND PRODUCED SIMILAR RESULTS TO THE CONTOUR SHOWN.
- 2) A MINIMUM TIME OF CONCENTRATION OF 5 MINUTES WAS USED TO BE CONSERVATIVE.
- 3) INTENSITY VALUES WERE OBTAINED USING TABLE 3-3 FROM THE GEORGETOWN DRAINAGE CRITERIA MANUAL.
- 4) THE RATIONAL METHOD WAS USED TO MODEL THE WATERSHEDS FOR THE INLET AND PIPE SYSTEMS AS WELL AS THE DRAINAGE SWALES THROUGHOUT THE SITE.
- 5) FOR FUTURE "10" YEAR FLOODING, THE RATIONAL METHOD WAS USED FOR IMPERVIOUS COVER, AND A C OF 0.36 WAS USED FOR GRASSLAND 0-2% SLOPES. THE 100-YEAR C VALUE WAS USED FOR EACH STORM EVENT IN ORDER TO BE CONSERVATIVE. AREAS THAT ARE ANTICIPATED TO BE IMPERVIOUS IN FUTURE WERE ASSIGNED A C OF 0.9.



07-30-2024

FORENSIC SPACES

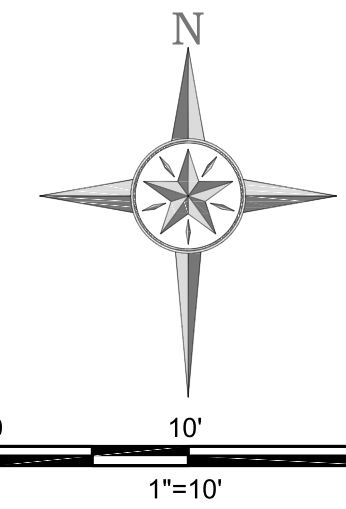
136 MARKET STREET | GEORGETOWN, TX 78626

PROPOSED DRAINAGE AREA PLAN FOR STRUCTURES

[illegible]

DRAWN BY:	
APPROVED BY:	
DATE:	7/30/2024
DWG NAME:	C4.2 DAP STORM.DWG
JOB NO:	

C4.2



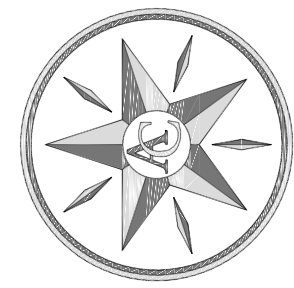
PRE VS POST DEVELOPMENT FLOW CALCULATIONS				
WATERSHED	2-YR Q (CFS)	10-YR Q (CFS)	25-YR Q (CFS)	100-YR Q (CFS)
EXISTING CONDITIONS	5.70	10.96	14.58	20.46
DEVELOPED FLOW	Bypass + Pond Release			
TOTAL DEVELOPED FLOW	4.16	7.78	10.36	14.52

NOTES:

- 1) THE DEVELOPED OUTFLOW FROM THE SITE IS LESS THAN EXISTING CONDITIONS
- 2) SEE PROPOSED DRAINAGE AREA PLAN FOR CALCULATIONS

STAGE-STORAGE-DISCHARGE			
STAGE	ELEVATION (ft)	STORAGE (cft)	DISCHARGE (Q)
0	679.5	0	0
0.5	680.0	331	0
1.5	681.0	5,262	0
1.75	681.25	7,711	0
2.5	682.0	16,553	5.22
3.5	683.0	30,564	15.73
4.0	683.5	38,676	20.84

— WATER QUALITY
ELEVATION. SEE
CALCULATIONS SHEET



07-30-2024

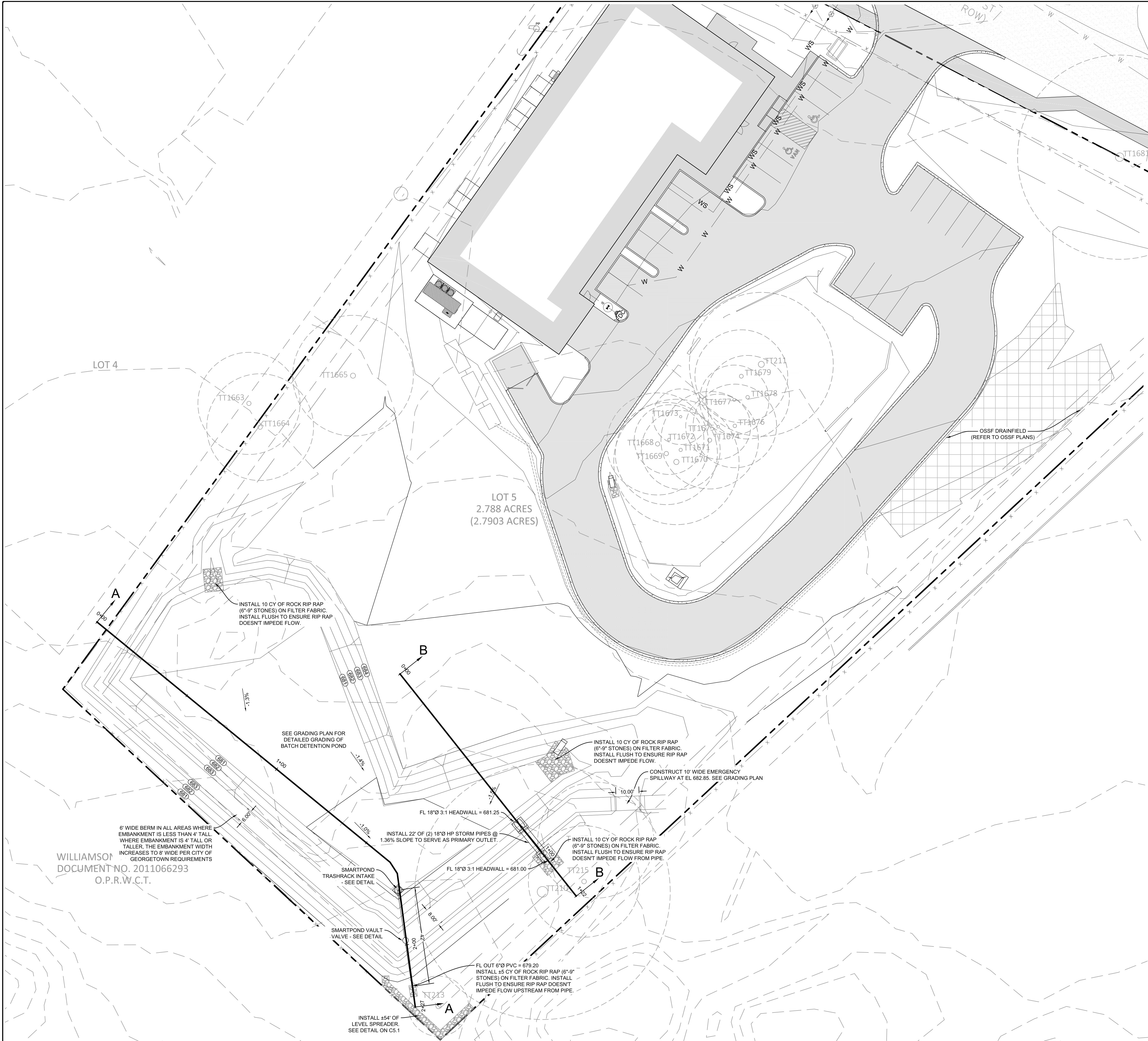
FORENSIC SPACES

136 MARKET STREET | GEORGETOWN, TX 78626

[illegible]

DRAWN BY:
APPROVED BY:
DATE:
DWG NAME:
JOB NO:

C5.0



TCEQ'S 80% TSS REMOVAL CALCULATIONS

Texas Commission on Environmental Quality

TSS Removal Calculations 04-20-2009

Project Name: 136 Market St
Date Prepared: 6/25/2024

1. The Required Load Reduction for the total project:

Calculations from RG-348

Pages 3-27 to 3-30

Page 3-29 Equation 3.3: $L_M = 27.2(A_N \times P)$

where: L_M TOTAL PROJECT = Required TSS removal resulting from the proposed development = 80% of increased load
 A_N = Net increase in impervious area for the project
 P = Average annual precipitation, inches

Site Data: Determine Required Load Removal Based on the Entire Project

County = Williamson
Total project area included in plan = 2.94 acres
Predevelopment impervious area within the limits of the plan = 0.00 acres
Total post-development impervious area within the limits of the plan = 0.88 acres
Total post-development impervious cover fraction = 0.30
 P = 32 inches

L_M TOTAL PROJECT = 766 lbs.

Number of drainage basins / outfalls areas leaving the plan area = 1

2. Drainage Basin Parameters (This information should be provided for each basin):

Drainage Basin/Outfall Area No. = DA1

Total drainage basin/outfall area = 2.94 acres
Predevelopment impervious area within drainage basin/outfall area = 0.00 acres
Post-development impervious area within drainage basin/outfall area = 0.88 acres
Post-development impervious fraction within drainage basin/outfall area = 0.30
 L_M THIS BASIN = 766 lbs.

3. Indicate the proposed BMP Code for this basin.

Proposed BMP = Batch Detention
Removal efficiency = 91 percent

4. Calculate Maximum TSS Load Removed (L_R) for this Drainage Basin by the selected BMP Type.

RG-348 Page 3-33 Equation 3.7: $L_R = (\text{BMP efficiency}) \times P \times (A_i \times 34.6 + A_p \times 0.54)$

where: A_C = Total On-Site drainage area in the BMP catchment area
 A_i = Impervious area proposed in the BMP catchment area
 A_p = Pervious area remaining in the BMP catchment area
 L_R = TSS Load removed from this catchment area by the proposed BMP

A_C = 2.76 acres
 A_i = 0.88 acres
 A_p = 1.88 acres
 L_R = 916 lbs

5. Calculate Fraction of Annual Runoff to Treat the drainage basin / outfall area

Desired L_M THIS BASIN = 766 lbs.

F = 0.84

6. Calculate Capture Volume required by the BMP Type for this drainage basin / outfall area.

Calculations from RG-348

Pages 3-34 to 3-36

Rainfall Depth = 1.26 inches
Post Development Runoff Coefficient = 0.27
On-site Water Quality Volume = 3379 cubic feet

Calculations from RG-348 Pages 3-36 to 3-37

Off-site area draining to BMP = 0.00 acres
Off-site impervious cover draining to BMP = 0.00 acres
Impervious fraction of off-site area = 0
Off-site Runoff Coefficient = 0.00
Off-site Water Quality Volume = 0 cubic feet

Storage for Sediment = 676

Total Capture Volume (required water quality volume(s) x 1.20) = 4055 cubic feet

WATER QUALITY NOTES

1. WATER QUALITY VOLUME REQUIRED BY TCEQ TO MEET 80% TSS REMOVAL REQUIREMENTS = 4,055 CF
2. WATER QUALITY VOLUME REQUIRED BY THE CITY OF GEORGETOWN TO MEET 85% TSS REMOVAL REQUIREMENTS = 5,149 CF
3. WATER QUALITY VOLUME PROVIDED AT ELEVATION 681.25 = 7,711 CF
4. WATER QUALITY POND IS HAS ADDITIONAL WATER QUALITY STORAGE FOR POTENTIAL FUTURE DEVELOPMENT. POTENTIAL FUTURE IMPERVIOUS AREA IS NOT INCLUDED IN SEDIMENT LOAD CALCULATIONS. THE SITE AND WATER QUALITY POND SHALL BE REANALYZED IN THE FUTURE FOR ANY FUTURE DEVELOPMENT ON THE SITE.

CITY OF GEORGETOWN'S 85% TSS REMOVAL CALCULATIONS

Texas Commission on Environmental Quality

TSS Removal Calculations 04-20-2009

Project Name: 136 Market St
Date Prepared: 6/5/2024

1. The Required Load Reduction for the total project:

Calculations from RG-348

Pages 3-27 to 3-30

Page 3-29 Equation 3.3: $L_M = 27.2(A_N \times P)$

where: L_M TOTAL PROJECT = Required TSS removal resulting from the proposed development = 85% of increased load
 A_N = Net increase in impervious area for the project
 P = Average annual precipitation, inches

Site Data: Determine Required Load Removal Based on the Entire Project

County = Williamson
Total project area included in plan = 2.94 acres
Predevelopment impervious area within the limits of the plan = 0.00 acres
Total post-development impervious area within the limits of the plan = 0.88 acres
Total post-development impervious cover fraction = 0.30
 P = 32 inches

L_M TOTAL PROJECT = 814 lbs.

Number of drainage basins / outfalls areas leaving the plan area = 1

2. Drainage Basin Parameters (This information should be provided for each basin):

Drainage Basin/Outfall Area No. = DA1

Total drainage basin/outfall area = 2.94 acres
Predevelopment impervious area within drainage basin/outfall area = 0.00 acres
Post-development impervious area within drainage basin/outfall area = 0.88 acres
Post-development impervious fraction within drainage basin/outfall area = 0.30
 L_M THIS BASIN = 814 lbs.

3. Indicate the proposed BMP Code for this basin.

Proposed BMP = Batch Detention
Removal efficiency = 91 percent

4. Calculate Maximum TSS Load Removed (L_R) for this Drainage Basin by the selected BMP Type.

RG-348 Page 3-33 Equation 3.7: $L_R = (\text{BMP efficiency}) \times P \times (A_i \times 34.6 + A_p \times 0.54)$

where: A_C = Total On-Site drainage area in the BMP catchment area
 A_i = Impervious area proposed in the BMP catchment area
 A_p = Pervious area remaining in the BMP catchment area
 L_R = TSS Load removed from this catchment area by the proposed BMP

A_C = 2.76 acres
 A_i = 0.88 acres
 A_p = 1.88 acres
 L_R = 916 lbs

5. Calculate Fraction of Annual Runoff to Treat the drainage basin / outfall area

Desired L_M THIS BASIN = 814 lbs.

F = 0.89

6. Calculate Capture Volume required by the BMP Type for this drainage basin / outfall area.

Calculations from RG-348

Pages 3-34 to 3-36

Rainfall Depth = 1.60 inches
Post Development Runoff Coefficient = 0.27
On-site Water Quality Volume = 4291 cubic feet

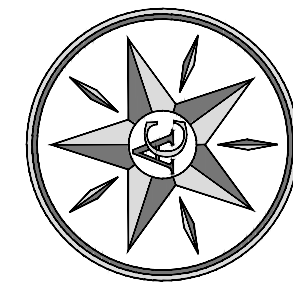
Calculations from RG-348 Pages 3-36 to 3-37

Off-site area draining to BMP = 0.00 acres
Off-site impervious cover draining to BMP = 0.00 acres
Impervious fraction of off-site area = 0
Off-site Runoff Coefficient = 0.00
Off-site Water Quality Volume = 0 cubic feet

Storage for Sediment = 858

Total Capture Volume (required water quality volume(s) x 1.20) = 5149 cubic feet

AKRON CONSULTING, LLC.
431 N. CENTER ST.
LONGVIEW, TX 75601
TBPE Firm Reg. # 14014
(O) 903-720-4822
www.akron-consulting.com



07-30-2024

FORENSIC SPACES
136 MARKET STREET | GEORGETOWN, TX 78626

WATER QUALITY
CALCULATIONS

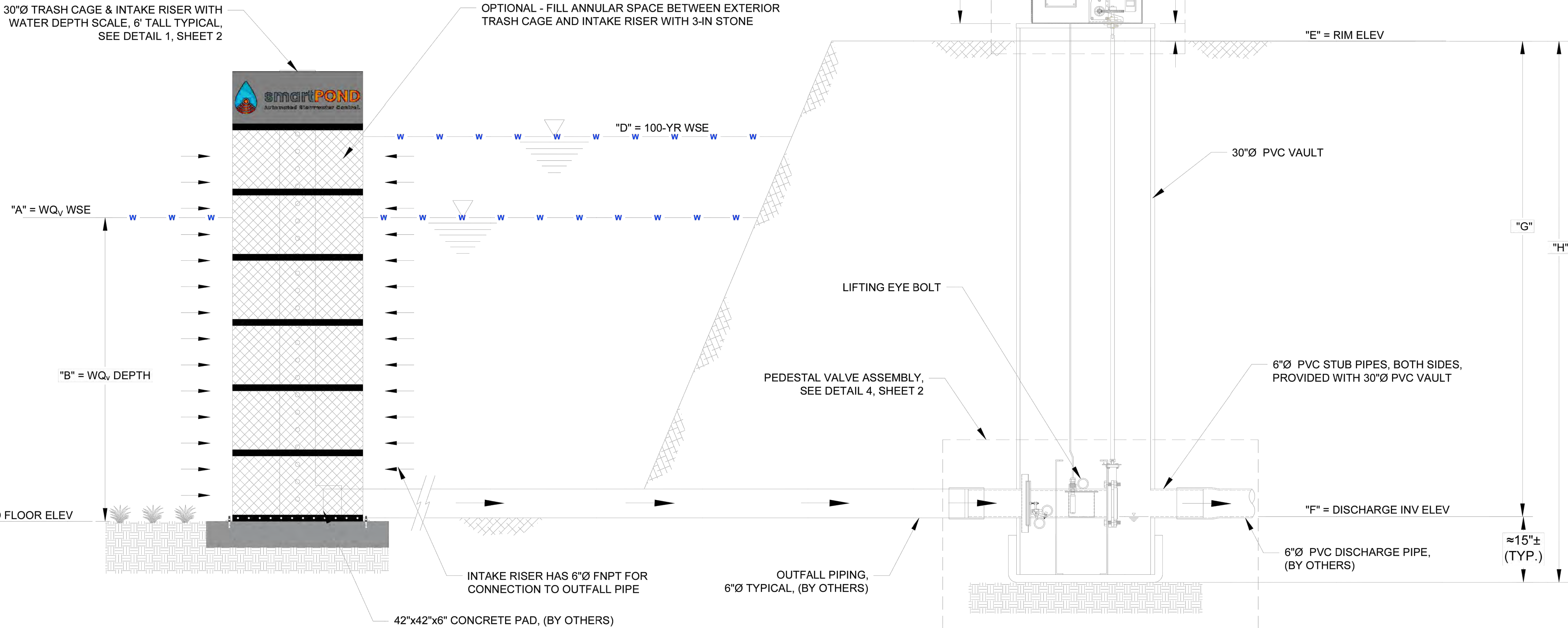
DATE NO. REVISION APPD

DRAWN BY:
APPROVED BY:
DATE:
DWG NAME:
JOB NO:

C5.2

smartPOND™ VAULT VALVE CONFIGURED IN DETENTION EMBANKMENT

ELEVATIONS & DEPTHS		
A	WATER QUALITY BATCH SURFACE ELEVATION (WSE)	681.25
B	WATER QUALITY BATCH VOLUME (WQ _v) DEPTH (FEET)	1.75'
C	POND FLOOR ELEVATION (FEET)	679.50
D	100-YR WATER SURFACE ELEVATION (FEET)	682.81
E	RIM, TOP OF BERM (TOB) ELEVATION (FEET)	683.50
F	DISCHARGE PIPE INVERT ELEVATION (FEET)	679.33'
G	RIM TO DISCHARGE PIPE INVERT (FEET)	4.17'
H	TOTAL DEPTH OF VAULT (FEET)	5.42'



NOTE: ENGINEER OF RECORD TO REVIEW, APPROVE AND ENDORSE FINAL SITE SPECIFIC DESIGN.

PROJECT:

136 Market ST
Georgetown, Texas

MODEL: **VAULT VALVE**
FOR BATCH DETENTION



smartPOND
Automated Stormwater Control.

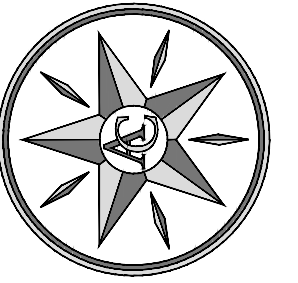
FOR ADDITIONAL INFORMATION CONTACT
**CONVERGENT WATER
 TECHNOLOGIES**
 1-800-711-5428
www.convergentwater.com



CONVERGENT
WATER TECHNOLOGIES

REVISION NO.
0
DATE
11/19/2023
SHEET NO.
1

AKRON CONSULTING, LLC.
431 N. CENTER ST.
LONGVIEW, TX 75601
TBPE Firm Reg. # 14014
O) 903-720-4822
www.akron-consulting.com



7-30-2024

FORENSIC SPACES
136 MARKET STREET | GEORGETOWN, TX 78626

WATER QUALITY DETAILS

[illegible]

DRAWN BY:
APPROVED BY:
DATE:
DWG NAME:
JOB NO:

C5.3

The image contains two technical drawings of the SmartPond system, labeled 'ELEVATION VIEW' and 'SIDE VIEW'.

ELEVATION VIEW: This drawing shows the front profile of the pond system. At the top is a grey header with the 'smartPOND' logo and the text 'AUGUST 2018 REVISED'. Below the header is a cross-hatched area representing the pond liner. Three numbered callouts point to specific components:

- 1: Points to the top of the cross-hatched area.
- 2: Points to a horizontal black line representing a reinforcement layer.
- 3: Points to the bottom of the cross-hatched area.

 At the base, a '33"Ø HOLD DOWN FLANGE RING' is shown, with a note 'SEE NOTE 2'.

SIDE VIEW: This drawing shows the side profile of the pond system. The total width is indicated as 30". The height is divided into five sections, each 5' high, totaling 25'. The sections are labeled 1' through 5' from bottom to top. A circular feature is shown in the bottom section. A note on the right indicates a total height of '72"± (TYP.) SEE NOTE 1'.

1. DESIGN HEIGHT OF INTAKE TRASH CAGE AND INTAKE RISER TO MATCH REQUIRED DETENTION DEPTHS.
2. USE 4X, $\frac{1}{2}$ " \varnothing X 3.5" SS WEDGE ANCHOR BOLTS TO CONNECT OUTFALL ASSEMBLY TO CONCRETE PAD, 2.5" MINIMUM EMBEDMENT.

TRASH CAGE WITH INTAKE RISER - PARTS LIST	
ITEM	COMPONENT DESCRIPTION
1	30"Ø CAGE WITH 1.5" GALVANIZED MESH SCREEN
2	8" SQUARE PERFORATED TUBING WITH 1"Ø PERFORATIONS, SPACED 4" ON CENTERS WITH WATER DEPTH SCALE
3	6"Ø FNPTS PROVIDED AT BOTTOM DISCHARGE OF INTAKE RISER

```

graph TD
    A[VALVED CLOSED IN STAND BY  
DEFAULT POSITION] --> B[LEVEL TRANSDUCER SENSES STORM  
EVENT, RISING WATER LEVEL]
    B --> C[START 12-HOUR DETENTION TIMER,  
VALVE REMAINS CLOSED]
    C --> D[IF NEW STORM EVENT OCCURS, VALVE REMAINS  
CLOSED FOR THE ENTIRE 12-HOURS]
    C --> E[END 12-HOUR DETENTION TIME. CONTROLLER OPENS  
VALVE TO DISCHARGE ENTIRE VOLUME WITHIN 46-HOURS]
    D --> F[WATER LEVEL = 0" DEPTH  
VALVE WAITS 2 MORE HOURS BEFORE CLOSING  
TO STANDBY DEFAULT POSITION]
    E --> F
    F --> G[DRAWDOWN CYCLE COMPLETE]
    G --> A
  
```

Diagram illustrating the components of the Solar Powered Water Lifting System:

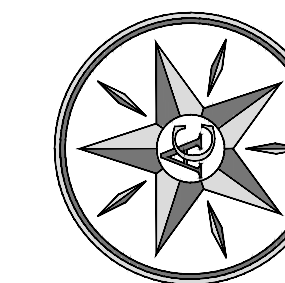
- ALERT LIGHT
- ENCLOSURE BOX
- PROGRAMMABLE CONTROLLER
- TOP OF PVC VAULT
- SOLAR PANEL
- BATTERY
- MOTOR
- ACTUATOR
- PVC VAULT RISER
- NON-RISING VALVE STEM

smartPOND™ VAULT VALVE

VAULT VALVE DETAILS

REVISION NO.
0
DATE
10/19/2023
SHEET NO.
2

AKRON CONSULTING, LLC.
431 N. CENTER ST.
LONGVIEW, TX 75601
TBPE Firm Reg. # 14014
(9) 903-720-4822
www.akron-consulting.com



07-30-2024

FORENSIC SPACES
136 MARKET STREET | GEORGETOWN, TX 78626

WATER QUALITY DETAILS

[illegible]

DRAWN BY:
APPROVED BY:
DATE:
DWG NAME:
JOB NO:

C5.4

smartPOND VAULT VALVE SPECIFICATIONS

1. **CONTINUOUSLY MONITORED AUTOMATED STORMWATER SYSTEM (C-MASS) DEVICE:** THE CONTINUOUSLY MONITORED AUTOMATED STORMWATER SYSTEM (C-MASS), SHOWN ON THE PLANS AS THE VAULT ASSEMBLY SHALL BE A smartPOND™ VAULT VALVE PROVIDED BY:

CONVERGENT WATER TECHNOLOGIES
800.711.5428
WWW.CONVERGENTWATER.COM

The smartPOND™ VAULT VALVE SHALL PROVIDE FOR ACTIVE MANAGEMENT OF DETAINED STORMWATER VOLUME AND /OR ITS ALLOWABLE DISCHARGE RATE. THE smartPOND™ VAULT VALVE SHALL BE PROGRAMMABLE TO DETAIN A SPECIFIED VOLUME OF STORMWATER FOR A SPECIFIED REQUIRED PERIOD OF TIME AND /OR PROGRAMMED TO CONTROL THE OUTFLOW RATE TO MATCH THE MAXIMUM ALLOWABLE DISCHARGE RATE OR BOTH OF THIS OPERATIONS SIMULTANEOUSLY. THE smartPOND™ VAULT VALVE MAXIMIZES THE DETENTION TO PROMOTE THE SETTLEMENT OF SOLIDS BEFORE AUTOMATICALLY DEWATERING THE DETENTION POND COMPLETELY. FOR STORMWATER RETENTION SYSTEMS, THE SYSTEM SHALL BE PROGRAMMED TO MANAGE THE REQUIRED RETENTION VOLUME WHILE MAINTAINING A SPECIFIED AMOUNT OF CAPACITY FOR FLOOD STORAGE OR OTHER USE.

THE FOLLOWING SPECIFICATIONS DESCRIBE THE COMPONENTS, GENERAL FUNCTIONS, AND APPLICATIONS OF A CONTINUOUSLY MONITORED AUTOMATED STORMWATER SYSTEM (C-MASS), USING THE PROGRAMMED smartPOND™ VAULT VALVE.

THIS smartPOND™ VAULT VALVE SHALL FUNCTION AS AN ELECTRONICALLY CONTROLLED, SOLAR POWERED STORMWATER MANAGEMENT DEVICE, PROVIDING PRECISION STORMWATER VOLUME MANAGEMENT CAPABILITIES AND REAL-TIME DATA. USING SENSORS, SOLAR POWER, AN ELECTRONIC ACTUATOR, AND AN INTERNET-BASED CONTROL INTERFACE. THE smartPOND™ VAULT VALVE CONNECTS TO A SPECIALIZED PERFORATED INTAKE RISER INSIDE THE STORMWATER IMPOUNDMENT AREA TO ENABLE PRECISE CONTROL OF REQUIRED DETAINED OR RETAINED STORMWATER CONTROL VOLUMES AND ALLOWABLE DISCHARGE RATES AUTOMATICALLY OR IN REAL TIME. THE smartPOND™ ASSEMBLY CAN BE CONFIGURED ABOVE GROUND OR BELOW IN SMALL MANHOLE OR VAULT STRUCTURE.

- 1.1 PRE-PROGRAMMED VAULT VALVE CONTROL: THE VAULT VALVE SHALL BE PRE-PROGRAMMED TO EXECUTE COMMANDS BASED ON STORM EVENTS, REQUIRED CONTROL VOLUMES, ALLOWABLE DISCHARGE RATES, AND DETENTION TIME.
- 1.1.1 BATCH DETENTION FUNCTION FOR STORMWATER QUALITY: THE smartPOND™ VAULT VALVE MAY BE PROGRAMMED TO PROVIDE BATCH DETENTION TO ACHIEVE STORMWATER QUALITY EFFLUENT GOAL OF 80% OR MORE REMOVAL OF TOTAL SUSPENDED SOLID (TSS) REMOVAL BY HOLDING THE WATER QUALITY VOLUME (Wq_v) FOR SETTLEMENT TREATMENT, FOR A REQUIRED PERIOD OF TIME. HOLDING TIMES ARE TYPICALLY SET FORTH IN STORMWATER MANAGEMENT REGULATIONS AS 12, 24 OR 48-HOURS.
- 1.2 REAL-TIME MONITORING (OPTIONAL): THE smartPOND™ SHALL COME WITH TELEMETRY THAT SHALL ENABLE REAL-TIME REMOTE MONITORING & VALVE OPERATION CAPACITIES THROUGH A SECURE WEB-BASED USER INTERFACE. THIS INTERFACE ENABLES COMMANDS TO BE SENT TO THE VAULT VALVE TO CHANGE THE VALVES POSITION TO CONTROL DISCHARGE RATE AND POND DEPTH. THROUGH THIS SECURE WEB-BASED USER INTERFACE THE DETENTION POND'S STORAGE-STAGE AND DISCHARGE RATE CAN BE MONITORED IN REAL-TIME. THE SECURE WEB-BASED USER INTERFACE SHALL ALSO ENABLE A USER TO:
- CONTROL THE VAULT VALVE, EITHER OPEN OR CLOSE.
 - DETERMINE THE WATER SURFACE ELEVATION (WSE) OR POND DEPTH.
 - DETERMINE IF TRASH OR DEBRIS IS SURROUNDING THE TRASH CHAGE AND INTAKE RISER.
 - RECEIVE MAINTENANCE ALERTS SUCH AS: LOW BATTERY, VAULT VALVE FAILURE, ETC.
 - MAINTAIN SPECIFIED WATER SURFACE LEVEL.

THIS SECURE WEB-BASED USER INTERFACE SHALL PROVIDE LIVE AND HISTORICAL DATA AND PROVIDE THE ALERTS LISTED IN SECTION 4 IT WILL ALSO ENABLE COMMANDS TO BE SENT TO THE VAULT VALVE TO CHANGE THE VALVES POSITION TO CONTROL DISCHARGE RATE AND POND DEPTH.

A COMPLETE SET OF INSTRUCTIONS FOR ACCESSING AND USING THIS SECURE WEB-BASED INTERFACE FOR LONG-TERM OPERATIONS SHALL BE PROVIDED IN THE CONSTRUCTION SUBMITTALS AND COPY OF THESE INSTRUCTION SHALL BE PLACED IN THE ENCLOSURE BOX.

2. **COMPONENTS:** THE smartPOND™ VAULT VALVE MAY BE IMPLEMENTED EITHER ABOVE OR BELOW GROUND, AND IS COMPRISED OF THE FOLLOWING COMPONENTS:

- ## 2.1 HARDWARE AND CONFIGURATION:

THE STANDARD smartPOND™ VAULT VALVE SYSTEM CONSISTS OF A LOWER AND UPPER COMPONENT: THE LOWER COMPONENT IS THE PEDESTAL VALVE ASSEMBLY WITH 6"Ø PIPE SPOOL AND 6"Ø ACTUATED VAULT VALVE AND PRESSURE TRANSDUCER HOUSING. THIS LOWER PEDESTAL SHALL HAVE A QUICK DISCONNECT SYSTEM ENABLING THE PEDESTAL VALVE ASSEMBLY TO BE DISCONNECTED FROM THE SURFACE AND HOISTED UP USING THE LIFTING EYE-BOLT ON TOP OF THE PEDESTAL VALVE ASSEMBLY.

THE SECOND, UPPER COMPONENT IS THE LOCKABLE STEEL WEATHERPROOF ENCLOSURE BOX WITH A SOLAR PANEL AND ALERT LIGHT MOUNTED ON ITS TOP. THIS ENCLOSURE BOX HOUSES THE PROGRAMMABLE CONTROLLER INSIDE A NEMA-3R BOX, BATTERY, ELECTRIC MOTOR, ACTUATOR GEARING AND AN EXTENDABLE NON-RISING VALVE STEM BETWEEN THE ACTUATOR AND THE 6"Ø VAULT VALVE.

THE ENCLOSURE BOX SHALL BE BOLTED TO THE TOP OF THE VAULT WITH 1/2"Ø " STAINLESS STEEL (SS) BOLT, NUTS AND WASHERS. USE 1/2"Ø, 3.5" LONG STAINLESS STEEL (SS) WEDGE ANCHORS IF VAULT'S TOP IS A CONCRETE PAD.

THIS ENCLOSURE BOX MAY BE INSTALLED WITHIN THE UNDERGROUND STRUCTURE AS LONG AS ACCESS TO THE ENTIRE VAULT ASSEMBLY IS ENSURED WITH A PROPERLY SIZED STRUCTURE. IN SUCH AN UNDERGROUND DEPLOYMENT CONFIGURATION, THE ENCLOSURE BOX SHOULD BE MOUNTED ABOVE THE MAXIMUM WATER SURFACE ELEVATION (WSE), OF THE DETENTION/DRAINAGE SYSTEM ION. THIS DEPLOYMENT CONFIGURATION STILL REQUIRES THE SOLAR PANEL TO BE LOCATED ABOVE GROUND.

THE LOWER PEDESTAL VALVE ASSEMBLY IS INSTALLED IN A MANHOLE OR VAULT AS NEEDED. AN EXTENDED NON-RISING VALVE STEM, AKA: "DRIVE SHAFT" CONNECTS THE UNDERGROUND VAULT VALVE TO THE ACTUATOR IN THE ABOVE GROUND ENCLOSURE BOX.

THE OUTFALL PIPE FROM THE DETENTION SYSTEM CONNECTS TO THE 6"Ø PVC INLET STUB PVC VAULT.

- ## 2.2 OTHER ELECTRONICS SPECIFICATIONS:

- MOTOR - OPERATES ON 12-VOLTS AND HAS TWO WIRES CONNECTING TO THE MOTOR CONTROLLER BOARD.
- BATTERY - THIS IS A GEL BATTERY THAT PROVIDES 12-VOLTS, 30 AMP/HOUR OF POWER TO THE VAULT VALVE ASSEMBLY.
- SOLAR PANEL - PROVIDES 15-WATT CHARGING TO THE 12-VOLT GEL BATTERY.
- SOLAR CHARGE CONTROLLER - REGULATES THE VOLTAGE AND CURRENT DELIVERED TO THE GEL BATTERY.

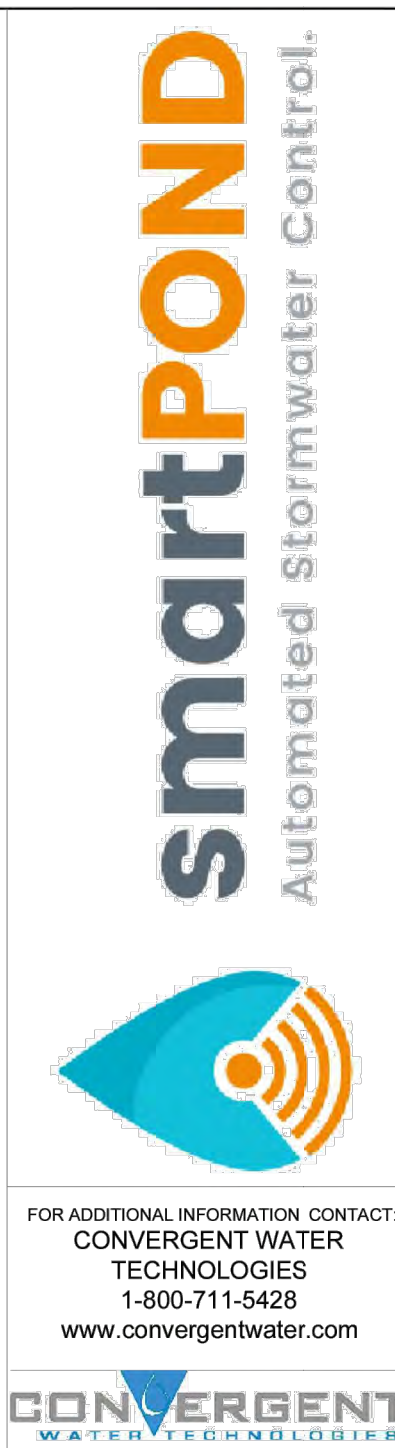
SENSORS:

- PRESSURE TRANSDUCER - A SENSOR CAPABLE OF STAYING SUBMERSED IN WATER INDEFINITELY AND IS MOUNTED IN CENTER PIPE SPOOL OF THE LOWER PEDESTAL COMPONENT.
- VAULT VALVE POSITION SENSOR - DETERMINES THE POSITION OF THE OUTFALL VALVE.

OPTIONAL SENSORS & HARDWARE:

- CELL DATA MODEM - REQUIRED FOR REAL TIME CONTROL AND ALERTS.
- HYDROCARBON SENSOR - THIS OPTIONAL SENSOR MAY BE FITTED TO THE smartPOND™ VAULT VALVE TO PERFORM SPECIFIC FUNCTIONS BASED ON THE PRESENCE OF HYDROCARBON CONTAMINATION.

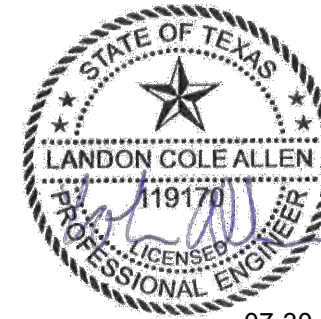
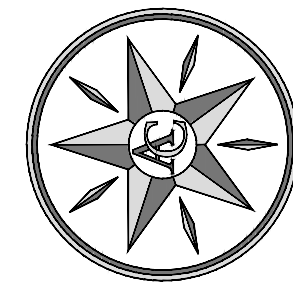
3. **ADDITIONAL COMPONENTS LIST:**
- 3.1 INTAKE RISER: THIS SHALL BE A PERFORATED STEEL RISER CONNECTED TO THE 6"Ø VAULT PIPE WITHIN THE POND AREA. THIS INTAKE RISER SHALL BE AN 8" SQUARE STEEL WITH FOUR (4X) 1"Ø HOLES AT 90-DEGREES EACH, EVERY 4 VERTICAL INCHES. THE DISCHARGE OF THIS INTAKE TUBING SHALL HAVE FEMALE NATIONAL PIPE THREADS (FNPT) TO MATCH THE 6"Ø SCHEDULE 40 PVC VAULT PIPE.
- 3.2 TRASH CAGE: THE TRASH CAGE ATTACHES TO THE PERFORATED RISER WITH A COUPLING AND CALDER PIN. PROVIDED WITH THE SYSTEM. THE TRASH CAGE SHALL BE COMPRISED OF STEEL BANDING AND A 1.5" X 1.5" MESH TO PREVENT FLOATABLES AND OTHER CONTAMINANTS FROM ENTERING AND CLOGGING THE PERFORATED RISER. THE TRASH CAGE WILL SIT 0.5" ABOVE THE BOTTOM OF THE IMPOUNDMENT TO ALLOW THE LAST 0.5" OUT OF THE IMPOUNDMENT.
- 3.3 VAULT VALVE STEM EXTENSION: THE NON-RISING STEM, AKA: "DRIVE SHAFT" OF THE smartPOND™ SYSTEM MAY BE EXTENDED TO ANY LENGTH NECESSARY FOR DEPLOYMENT CONFIGURATIONS INSTANCES WHERE THE VAULT VALVE WILL BE IN AN UNDERGROUND VAULT OR MANHOLE. THE VAULT VALVE STEM WILL CONNECT THE VAULT VALVE TO THE ABOVE GROUND CONTROLS.
4. **ALERTS:** THE smartPOND™ VAULT VALVE WILL INDICATE THE FOLLOWING ALERTS BY ILLUMINATING AN EXTERIORLY VISIBLE RED LIGHT ON TOP OF THE ENCLOSURE BOX:
- LOW BATTERY
 - LOSS OF FUNCTION
 - VAULT VALVE MALFUNCTION
 - HYDROCARBON CONTAMINATION (OPTIONAL)
6. **MAINTENANCE & OPERATION SUBMITTAL:** AN OPERATION AND MAINTENANCE MANUAL SHALL BE PROVIDED, REVIEWED AND APPROVED DURING THE CONSTRUCTION SUBMITTAL PROCESS AND SHALL INCLUDE AT A MINIMUM: GREASING AND LUBRICATION ITEMS AND CYCLE FOR THE ACTUATOR, MOTOR AND VALVE; INSPECTION AND MAINTENANCE OF THE SOLAR PANEL, GEL BATTERY TRASH CAGE AND INTAKE RISER; AND PROCEDURES FOR VALVE OPERATION IN CASE OF TOTAL ELECTRONIC OR MOTOR FAILURE.
7. **SHIPPING AND HANDLING STORAGE:** THE smartPOND™ VAULT VALVE IS SHIPPED IN A NEAR-FULLY ASSEMBLED CONFIGURATION AND SHOULD BE STORED LIKEWISE. THE SYSTEMS ARE TRANSPORTED AND STORED ON PALLETS AND MUST REMAIN SECURED VIA STRAPS OR STEEL BANDS TO SAID PALLET AT ALL TIMES. THE SOLAR PANEL IS NOT INSTALLED AT TIMES OF TRANSPORT OR STORAGE AND SHOULD NOT BE INSTALLED UNTIL THE UNIT IS READY TO BEGIN OPERATION. THE BATTERY MAY BE STORED INSIDE THE ELECTRONICS BOX AND IF REMOVED, SHOULD NEVER BE STORED ON A CONCRETE SURFACE.
8. **INSTALLATION:** INSTALL THE smartPOND™ VAULT ASSEMBLY FIRST WITHOUT THE SOLAR PANEL. MOUNT SOLAR PANEL WITH THE CONNECTION BOLTS PROVIDED AFTER THE ASSEMBLY IS ANCHORED TO THE CONCRETE PAD USING THE ANCHOR BOLTS CALLED OUT ON THE PLANS. AS . BOLTS SHOULD BE REMOVED DURING THE INSTALLATION PROCESS. THERE ARE SEVERAL WAYS TO INSTALL THE smartPOND™ VAULT VALVE WITH THE KEY BEING STRUCTURED SUPPORT.
- 8.1 BELOW GROUND INSTALLATIONS: THE UPPER COMPONENT CONSISTING OF THE ENCLOSURE BOX AND ALL ITS INTERNALS SHOULD BE FASTENED TO THE VAULT TOP OR TO THE SURFACE OF A CONCRETE PAD POURED OVER THE VAULT TOP. FOR VAULT INSTALLATIONS, SEE DESIGN DETAILS FOR STANDARD VAULT DESIGN.
9. **SAFETY INFORMATION AND WARNINGS:**
- ALWAYS KEEP HANDS CLEAR OF THE VAULT VALVE AND MOTOR WHEN UNIT IS IN OPERATION.
 - TURN THE POWER SWITCH OFF WHEN DOING ANY ELECTRICAL WORK.
 - DO NOT ENTER THE WATER WHEN THE DEVICE IS ACTIVELY DRAINING WATER.
 - ALWAYS USE PROPER PERSONAL PROTECTION EQUIPMENT (PPE), AND CONFINED SPACE PROTOCOL WHEN SERVICING A VAULT VALVE BENEATH GROUND.
10. **PRODUCTS:** THE MANUFACTURER SHALL BE AN ESTABLISHED STORMWATER COMPANY THAT HAS AT LEAST FIVE (5X) INSTALLATIONS OF C-MASS DEVICES THAT HAVE BEEN IN USE AND FUNCTIONAL FOR FIVE (5X) OR MORE YEARS.
11. **QUALITY ASSURANCE AND PERFORMANCE SPECIFICATIONS:** THE QUALITY OF ALL SYSTEM COMPONENTS AND ALL OTHER APPURTENANCES AND THEIR ASSEMBLY PROCESS SHALL BE SUBJECT TO INSPECTION UPON DELIVERY OF THE SYSTEM TO THE WORK SITE. INSTALLATION IS TO BE PERFORMED ONLY BY SKILLED WORK PEOPLE WITH SATISFACTORY RECORD OF PERFORMANCE ON EARTHWORKS, PIPE, WELDING, CHAMBER, OR POND/LANDFILL CONSTRUCTION PROJECTS OF COMPARABLE SIZE AND QUALITY.



smartPOND™ VAULT VALVE SPECIFICATIONS

REVISION NO.	0
DATE	10/19/2023
SHEET NO.	3

AKRON CONSULTING, LLC.
431 N. CENTER ST.
LONGVIEW, TX 75601
TBE Firm Reg. # 14014
(O) 903-720-4822
www.akron-consulting.com



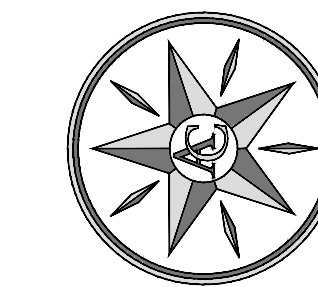
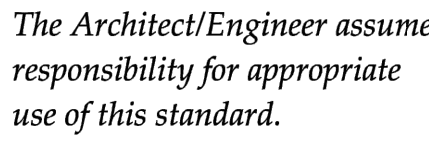
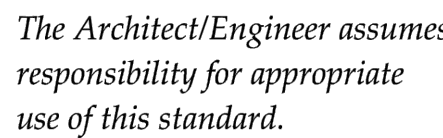
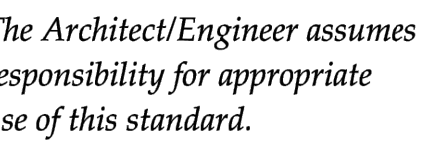
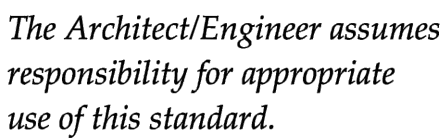
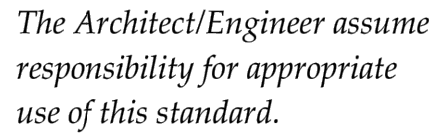
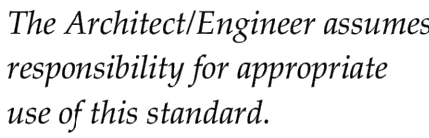
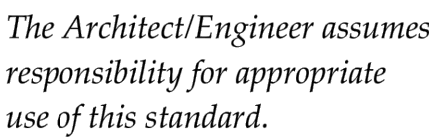
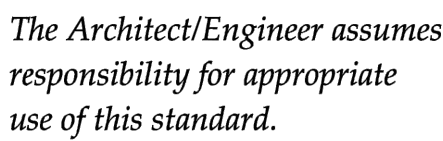
FORENSIC SPACES
136 MARKET STREET | GEORGETOWN, TX 78626

WATER QUALITY DETAILS

[illegible]

DRAWN BY:
APPROVED BY:
DATE:
DWG NAME:
JOB NO:

C5.5

[illegible]



CITY OF GEORGETOWN
CONSTRUCTION STANDARDS AND DETAILS
SEWER CLEAN-OUT DETAIL

ADJUDICATION INFO:		ADOPTED 6/21/2006	
SIGNING NAME:		WW12	
SCALE:	DATE:		
NTS	1/2003		
SIGNING BY:	APPROVED BY:		
MRS	TRB		



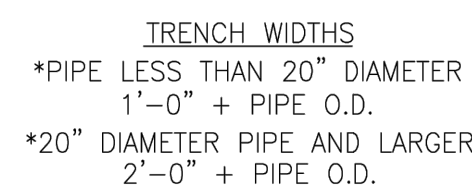
- | | |
|---|---|
| 1. SERVICE CONNECTION RISERS SHALL TERMINATE 8" INSIDE THE PROPERTY LINE. | 6. CONTRACTOR SHALL MARK ON A CLEAN SET OF PLANS THE FINAL STATIONING OR DISTANCE AND DIRECTION FROM MANHOLE TO THE FINAL GRADE, AND PROVIDE TO THE ENGINEER FOR RECORD DRAWING PURPOSES. |
| 2. THE END OF EACH SERVICE CONNECTION RISER SHALL BE EXTENDED TO THE FINAL GRADE. | 7. ANY DEVIATION FROM THESE METHODS MUST BE APPROVED BY THE CITY OF GEORGETOWN ENGINEERING DEPARTMENT. |
| 3. EACH SERVICE CONNECTION SHALL BE PLUGGED WATER-TIGHT WITH AN APPROVED CAP OR PLUG. | 8. SERVICE LINE MATERIAL SHALL BE P.V.C., SDR-26. |
| 4. FOR P.V.C. INSTALLATIONS, CONNECT TO EXISTING "BELL END" AND CONNECT OPPOSITE END WITH P.V.C. TO P.V.C. BROOK OR SLEEVE. | 9. SEWER SERVICE LOOSE TO BE 45" OFF CENTERLINE OF MAIN. |
| 5. SOLIDLY TAMP BACKFILL AT LEAST ONE FOOT (1'-0") ABOVE TOP OF PIPE. SERVICES UNDER PAVED AREAS SHALL BE BACKFILLED TO THE SAME SPECIFICATIONS AS SHOWN ON PAYMENT REPLACEMENT DETAIL. | 10. <i>The Award Engineer assumes responsibility for appropriate use of this signboard.</i> (Seal Area) |

The Architect/Engineer assumes responsibility for appropriate use of this standard.



CITY OF GEORGETOWN
CONSTRUCTION STANDARDS AND DETAILS
SEWER SERVICE CONNECTIONS

REVISION: NONE		ADOPTED 6/21/2006	
DRAWING NAME:		WW13	
SCALE:	NTS	DATE:	1/2003
DRAWN BY:	MRS	APPROVED BY:	TRB



EST. 1945
GEORGETOWN
TEXAS
 Georgetown Utility Systems
 Your Community Owned Utility

CITY OF GEORGETOWN
CONSTRUCTION STANDARDS AND DETAILS
TRENCH AND EMBEDMENT DETAIL
UNDER NON-PAVED AREAS

REVISION NOTE: ADOPTED 6/21/2006	
DRAWING NAME: WW16	
SCALE: NTS	DATE: 1/2003
DRAWN BY: MRS	APPROVED BY: TRB



07-30-2024

FORENSIC SPACES

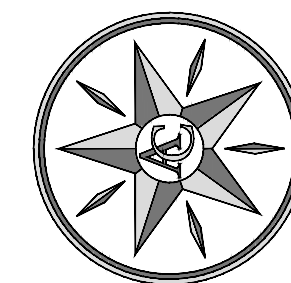
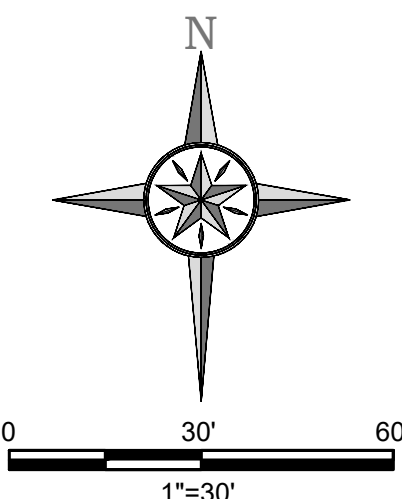
136 MARKET STREET | GEORGETOWN, TX 78626

WASTEWATER
DETAILS

[illegible]

DRAWN BY:
APPROVED BY:
DATE: 7/30/2024
DWG NAME: C6.0 UTILITY PLAN.DWG
JOB NO:

C6.3



07-30-2024

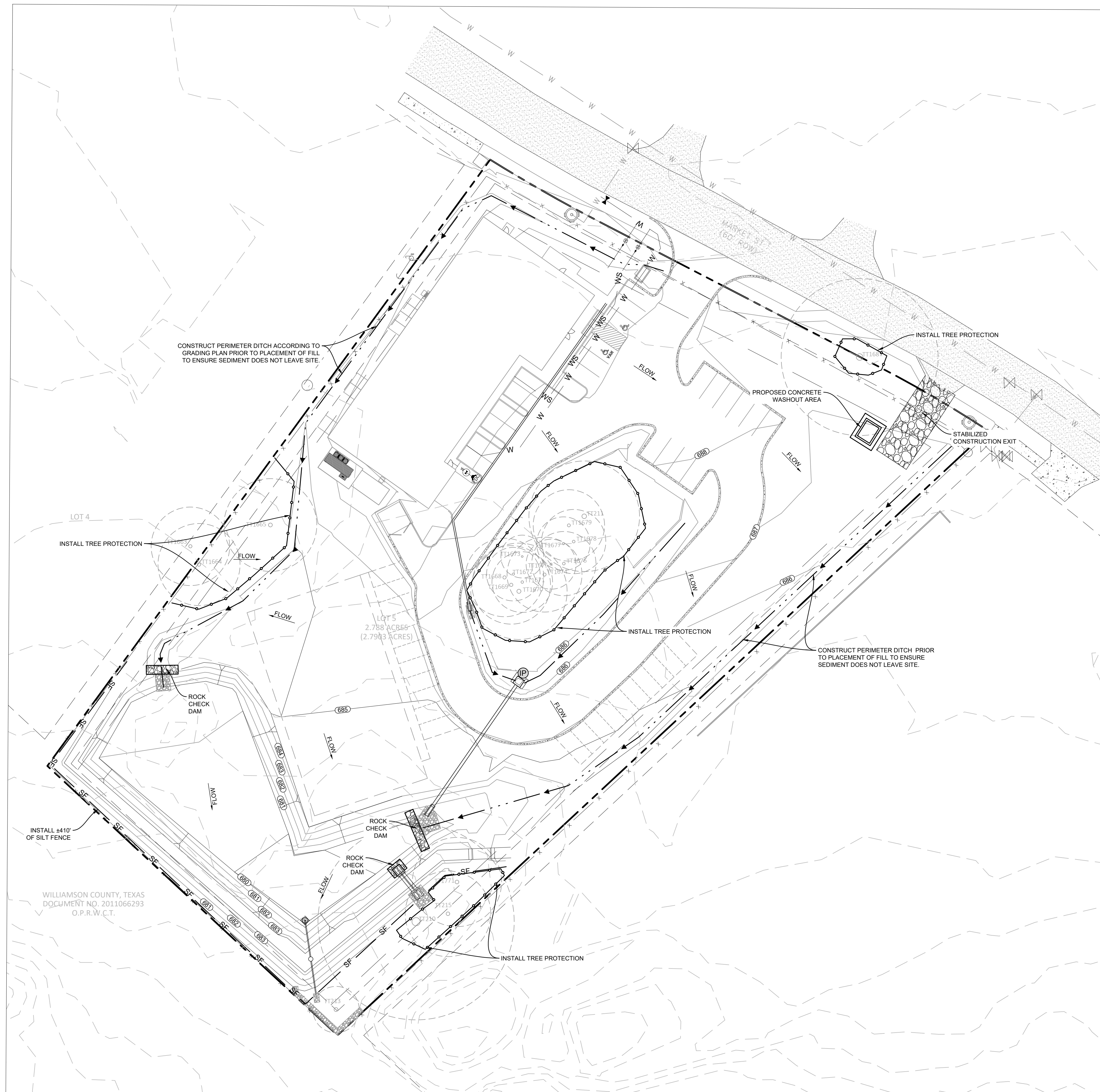
FORENSIC SPACES
136 MARKET STREET | GEORGETOWN, TX 78626

EROSION CONTROL PLAN

[illegible]

DRAWN BY:
APPROVED BY:
DATE:
DWG NAME:
JOB NO:

C7.0



EROSION CONTROL

- 1 THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL EROSION CONTROL AND WATER QUALITY REQUIREMENTS, LAWS, AND ORDINANCES THAT APPLY TO THE CONSTRUCTION SITE LAND DISTURBANCE.
- 2 CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE "TCEQ GENERAL PERMIT TO DISCHARGE UNDER THE TEXAS POLLUTANT DISCHARGE ACT" (GPDA) SYSTEMS FOR CONSTRUCTION OF NEW OR EXISTING FACILITIES.
- 3 EROSION CONTROL DEVICES SHOWN ON THE EROSION CONTROL PLAN FOR THE PROJECT SHALL BE INSTALLED PRIOR TO THE START OF LAND DISTURBANCE.
- 4 ALL EROSION CONTROL DEVICES ARE TO BE INSTALLED IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS FOR THE PROJECT. CONTRACTOR SHALL MAINTAIN EROSION CONTROL DEVICES, INCLUDING PERMANENT MAINTENANCE, AND EFFECTIVENESS OF ALL EROSION CONTROL DEVICES, BEST MANAGEMENT PRACTICES (BMPs), AND FOR UPDATING THE EROSION CONTROL PLAN DURING CONSTRUCTION AS FIELD CONDITIONS CHANGE.
- 5 CONTRACTOR SHALL DOCUMENT THE DATES OF INSTALLATION, MAINTENANCE OR MODIFICATION, AND REMOVAL FOR EACH INLET PER APPROVED IN THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IF APPLICABLE.
- 6 AS STORM SEWER INLETS ARE INSTALLED ON SITE, TEMPORARY EROSION CONTROL DEVICES SHALL BE INSTALLED AT EACH INLET PER EMPLOYED DETAIL.
- 7 ONCE EROSION CONTROL DEVICES SHALL REMAIN IN PLACE UNTIL THE AREA IT PROTECTS HAS BEEN PERMANENTLY STABILIZED.
- 8 CONTRACTOR SHALL PROVIDE ADEQUATE EROSION CONTROL DEVICES NEEDED DUE TO PROJECT PHASING.
- 9 CONTRACTOR SHALL OBSERVE THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES AND MAKE FIELD ADJUSTMENTS AND MODIFICATIONS AS NEEDED TO PREVENT SEDIMENT FROM LEAVING THE SITE. IF THE EROSION CONTROL DEVICES DO NOT EFFECTIVELY CONTROL EROSION AND PREVENT SEDIMENT FROM LEAVING THE SITE, THE CONTRACTOR SHALL NOTIFY THE ENGINEER.
- 10 OFF-SITE SOIL BORROW, SPOIL, AND STORAGE AREAS (IF APPLICABLE) ARE CONSIDERED AS PART OF THE PROJECT SITE AND MUST ALSO COMPLY WITH THE EROSION CONTROL REQUIREMENTS FOR THIS PROJECT. THIS INCLUDES THE INSTALLATION OF BMPs TO CONTROL EROSION AND SEDIMENTATION AND THE ESTABLISHMENT OF PERMANENT GROUND COVER ON DISTURBED AREAS PRIOR TO FINAL APPROVAL OF THE PROJECT. CONTRACTOR IS RESPONSIBLE FOR THE EROSION AND EROSION CONTROL PLAN TO INCLUDE BMPs FOR ANY OFF-SITE AREAS THAT ARE NOT ANTICIPATED OR SHOWN ON THE EROSION CONTROL PLAN.
- 11 ALL STAGING, STOCKPILES, SPOIL, AND STORAGE SHALL BE LOCATED SUCH THAT THEY WILL NOT ADVERSELY AFFECT STORM WATER QUALITY. PROTECTIVE MEASURES SHALL BE PROVIDED IF NEEDED TO ACCOMPLISH THIS REQUIREMENT, SUCH AS COVERING OR ENCIRCLING THE AREA WITH AN EROSION CONTROL BARRIER.
- 12 CONTRACTORS SHALL INSPECT ALL EROSION CONTROL DEVICES, BMPs, DISTURBED AREAS, AND VEHICLE ENTRY AND EXIT AREAS WEEKLY AND WITHIN 24 HOURS OF ALL RAINFALL EVENTS OF 0.5 INCHES OR GREATER, AND KEEP A RECORD OF THIS INSPECTION IN THE SWPPP BOOKLET IF APPLICABLE, TO DOCUMENT THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES.
- 13 CONTRACTOR SHALL CONSTRUCT A STABILIZED CONSTRUCTION ENTRANCE AT ALL PRIMARY POINTS OF ACCESS IN ACCORDANCE WITH CITY SPECIFICATIONS. CONTRACTOR SHALL ENSURE THAT ALL CONSTRUCTION TRAFFIC USES THE STABILIZED ENTRANCE AT ALL TIMES FOR ALL INGRESS/EGRESS.
- 14 SITE ENTRY AND EXITS SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT THE TRACKING AND FLOWING OF SEDIMENT AND DIRT ONTO OFF-SITE ROADWAYS. ALL SEDIMENT AND DIRT FROM THE SITE THAT IS DEPOSITED ON AN OFF-SITE ROADWAY SHALL BE REMOVED IMMEDIATELY. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL SILT AND DEBRIS FROM THE AFFECTED OFF-SITE ROADWAYS THAT ARE A RESULT OF THE CONSTRUCTION, AS REQUESTED BY OWNER AND CITY. AT A MINIMUM, THIS SHOULD OCCUR ONCE PER DAY FOR THE OFF-SITE ROADWAYS.
- 15 WHEN TRUCKING OR VEHICLES IS REQUIRED TO REMOVE SEDIMENT PRIORS TO EXITING THE SITE, IT SHALL BE DONE IN AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP BMP.
- 16 CONTRACTOR SHALL INSTALL A TEMPORARY SEDIMENT BASIN FOR ANY ON-SITE DRAINAGE AREAS THAT ARE GREATER THAN 10 ACRES, PER TCEQ AND CITY STANDARDS. TEMPORARY ENGINEERING DESIGN SHALL BE PROVIDED FOR A SEDIMENTATION BASIN ON THESE PLANS, THEN THE CONTRACTOR SHALL PROVIDE FOR AN APPROPRIATE DESIGN TO BE PROVIDED.
- 17 ALL FINES IMPOSED FOR SEDIMENT OR DIRT DISCHARGED FROM THE SITE SHALL BE PAID BY THE RESPONSIBLE CONTRACTOR.
- 18 WHEN SEDIMENT OR DIRT HAS CLOGGED THE CONSTRUCTION ENTRANCE VOID SPACES BETWEEN STONES OR DIRT IS BEING TRAPPED ONTO A ROADWAY, THE ADDITIONAL CONSTRUCTION IN THE AREA IS EXPEDITED TO BE DONE. THE LAST DISTURBANCE SHALL BE THE LAST DISTURBANCE DRAIN DIRECTLY OFF SITE WITHOUT FIRST FLOWING THROUGH ANOTHER BMP TO CONTROL SEDIMENTATION. PERIODIC RE-GRADING OR NEW STONE MAY BE REQUIRED TO MAINTAIN THE EFFECTIVENESS OF THE CONSTRUCTION ENTRANCE.
- 19 TEMPORARY SEEDING OR OTHER APPROVED STABILIZATION SHALL BE INITIATED WITHIN 14 DAYS OF THE LAST DISTURBANCE OF ANY AREA, UNLESS ADDITIONAL CONSTRUCTION IN THE AREA IS EXPEDITED TO BE DONE.
- 20 CONTRACTOR SHALL FOLLOW GOOD HOUSEKEEPING PRACTICES DURING CONSTRUCTION, ALWAYS CLEANING UP DIRT, LOOSE MATERIAL, AND TRASH AS CONSTRUCTION PROGRESSES.
- 21 UPON COMPLETION OF FINE GRADING, ALL SURFACES OF DISTURBED AREAS SHALL BE PERMANENTLY STABILIZED. STABILIZATION IS ACHIEVED WHEN THE VEGETATION IS EITHER COVERED BY PERMANENT IMPERVIOUS STRUCTURES, SUCH AS BUILDINGS, SIDEWALK, PAVEMENT, OR A UNIFORM PERENNIAL VEGETATIVE COVER.
- 22 AT THE CONCLUSION OF THE PROJECT, ALL INLETS, DRAIN PIPE, CHANNELS, DRAINAGEWAYS AND BORROW DITCHES AFFECTED BY THE CONSTRUCTION SHALL BE RE-GRADDED, AND THE SEDIMENT GENERATED BY THE PROJECT SHALL BE REMOVED AND DISPOSED IN ACCORDANCE WITH APPLICABLE REGULATIONS.

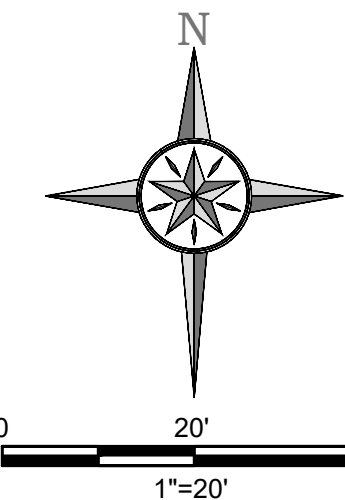
STORM WATER DISCHARGE AUTHORIZATION

1. CONTRACTOR SHALL COMPLY WITH ALL TCEQ AND EPA STORM WATER POLLUTION PREVENTION REQUIREMENTS.
2. CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE TCEQ GENERAL PERMIT TO DISCHARGE UNDER THE TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM TRX 100000.
3. CONTRACTOR OR SUBCONTRACTOR SHALL ENSURE THAT ALL PRIMARY OPERATORS SUBMIT A NOI TO TCEQ AT LEAST SEVEN DAYS PRIOR TO COMMENCING CONSTRUCTION (IF APPLICABLE), OR IF UTILIZING ELECTRONIC SUBMITTAL, PRIOR TO COMMENCING CONSTRUCTION. ALL PRIMARY OPERATORS SHALL PROVIDE A COPY OF THE SIGNED NOI TO THE OPERATOR OF ANY MSA (TYPICALLY THE CITY) RECEIVING DISCHARGE FROM THE SITE.
4. CONTRACTOR OR SUBCONTRACTOR SHALL SUBMIT A TCEQ PERMIT APPLICATION TO TCEQ PRIOR TO COMMENCING CONSTRUCTION IF APPLICABLE, INCLUDING POSTING SITE NOTICE, INSPECTIONS, DOCUMENTATION, AND SUBMISSION OF ANY INFORMATION REQUIRED BY THE TCEQ AND EPA (E.G. NOI).
5. ALL CONTRACTORS AND SUBCONTRACTORS PROVIDING SERVICES RELATED TO THE SWPPP SHALL SIGN THE REQUIRED CONTRACTOR CERTIFICATION STATEMENT ACKNOWLEDGING THEIR RESPONSIBILITIES AS SPECIFIED IN THE SWPPP.
6. A COPY OF THE SWPPP, INCLUDING NOI, SITE NOTICE, CONTRACTOR CERTIFICATIONS, AND ANY REVISIONS, SHALL BE SUBMITTED TO THE CITY BY THE CONTRACTOR AND SHALL BE RETAINED ON-SITE.
7. A NOTICE OF TERMINATION (NOT) SHALL BE SUBMITTED TO TCEQ BY ANY PRIMARY OPERATOR WITHIN 30 DAYS AFTER ALL SOIL DISTURBING ACTIVITIES AT THE SITE HAVE BEEN COMPLETED AND A UNIFORM VEGETATIVE COVER HAS BEEN ESTABLISHED ON ALL UNPAVED AREAS AND AREAS NOT COVERED BY STRUCTURES. A TRANSFER OF OPERATIONAL CONTROL HAS OCCURRED, OR THE OPERATOR HAS OBTAINED AN ALTERNATIVE AUTHORIZATION UNDER A TCEQ GENERAL PERMIT.

DISTURBANCE & VEGETATION NOTES

1. PRIOR TO BEGINNING CONSTRUCTION, CONTRACTOR SHALL PREPARE, OR OBTAIN A COPY OF, A STORMWATER POLLUTION PREVENTION PLAN (SWPPP), IF NECESSARY, IN ACCORDANCE WITH UNITED STATES ENVIRONMENTAL PROTECTION AGENCY (USEPA) REGULATIONS. FILE A NOTICE OF INTENT (NOI), APPLICATION, AND FEE TO THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ). CONTRACTOR SHALL MAINTAIN THE SWPPP NOTEBOOK AND WEEKLY REPORTS ONSITE AT ALL TIMES IN COMPLIANCE WITH USEPA AND TCEQ REQUIREMENTS. MAINTENANCE OF EROSION CONTROL MEASURES AND REQUIRED REPORTING SHALL BE CONTINUOUS THROUGHOUT CONSTRUCTION. PREPARATION OF THE SWPPP AND MAINTENANCE OF THE EROSION CONTROL MEASURES SHALL BE SUBSIDIARY TO THE OVERALL PROJECT COST UNLESS PROVIDED FOR OTHERWISE.
2. PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL ENSURE THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION SHALL BEGIN UNTIL THE CONTRACTOR HAS OBTAINED ALL NECESSARY PERMITS, PLANS AND OTHER DOCUMENTS APPROVED BY ALL OF THE PERMITTING AUTHORITIES. CONTRACTOR SHALL CONTACT 811 AND VERIFY LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO STARTING CONSTRUCTION.
3. EROSION CONTROL DEVICES AS SHOWN ON THE PHASE I PLAN SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.
4. ALL EROSION CONTROL DEVICES ARE TO BE INSTALLED IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS FOR THIS PROJECT. CHANGES ARE TO BE APPROVED BEFORE CONSTRUCTION BY THE DESIGN ENGINEER OR THE AUTHORITY HAVING JURISDICTION.
5. ALL SLOPED AREAS SHALL BE HYDROMULCHED OR SODDED IMMEDIATELY AFTER GRADES HAVE BEEN ESTABLISHED. CONTRACTOR SHALL BE RESPONSIBLE FOR THE ESTABLISHMENT OF ADEQUATE VEGETATION IN DISTURBED AREAS. A MINIMUM OF 90% COVERAGE OF HEALTHY VEGETATION WILL BE REQUIRED PRIOR TO COMPLETION OF THE PROJECT.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXISTING UTILITY LOCATION AND/OR DEPTH OF ANY EXISTING UTILITIES. THE UTILITIES SHOWN IN THESE PLANS ARE APPROXIMATED BASED ON AVAILABLE INFORMATION AND SHOULD NOT BE RELIED ON AS EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES.
7. CONTRACTOR TO STRIP AND STOCKPILE A MINIMUM OF 4" TOP SOIL. TO BE REUSED AS FINAL TOPSOIL LAYER UPON COMPLETION OF GRADING.

C7.1

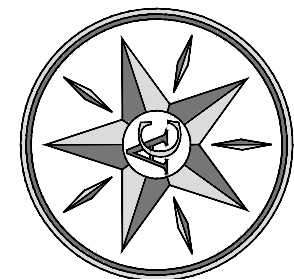
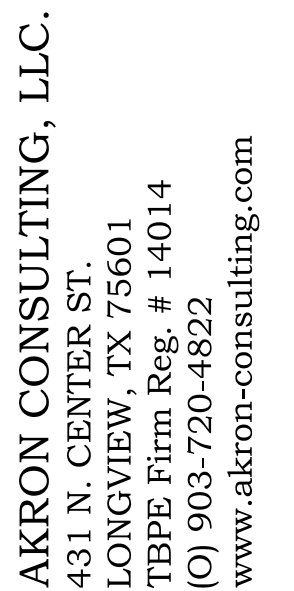


CM - CRAPE MYRTLE
A - ABELIA
N - NANDINA

- ALL CONSTRUCTION TO BE IN ACCORDANCE WITH THE AUTHORITY HAVING JURISDICTION'S STANDARDS AND SPECIFICATIONS.
- PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL ENSURE THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PLANS AND OTHER DOCUMENTS APPROVED BY ALL OF THE PERMITTING AUTHORITIES.
- THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION AND/OR DEPTH OF ANY EXISTING UTILITIES. THE UTILITIES SHOWN IN THESE PLANS ARE APPROXIMATED BASED ON AVAILABLE INFORMATION AND SHOULD NOT BE RELIED ON AS EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES.

- ALL DECOMPOSED GRANITE, MULCHED, AND/OR ROCKED AREAS TO BE SEPARATED FROM GRASS WITH METAL OR POLYBOARD EDGING.
- DECOMPOSED GRANITE, MULCH, AND ROCK MATERIAL SHALL BE UNIFORM ACROSS ALL AREAS.
- TREES PROPOSED OUTSIDE OF DEFINED LANDSCAPE AREAS SHALL HAVE MULCH INSTALLED AROUND THE TREE AT A DEPTH NO GREATER THAN 4 INCHES.
- PROPOSED TREES SHALL BE A MINIMUM SIZE OF 10 GALLONS.
- PROPOSED SHRUBS SHALL BE A MINIMUM SIZE OF 3 GALLONS.
- BERMUDA HYDROMULCH SHALL BE APPLIED TO ALL DISTURBED AREAS WHERE GRASS IS INTENDED.
- LANDSCAPE CONTRACTOR SHALL DETERMINE THE AVAILABILITY AND VIABILITY OF SPECIFIED PLANTS BEFORE ORDERING.
- LANDSCAPE CONTRACTOR SHALL DETERMINE THE VIABILITY OF PLANTS SHOWN AND PLANTING LOCATIONS. IF CONFLICTS ARISE, OR ALTERNATIVE OPTIONS ARE PREFERRED, LANDSCAPE CONTRACTOR SHALL DISCUSS WITH THE OWNER AND ACQUIRE WRITTEN PERMISSION FOR MODIFICATIONS.
- ADDITIONAL PLANTS MAY BE ADDED AT THE DISCRETION OF THE LANDSCAPE CONTRACTOR WITH WRITTEN PERMISSION BY OWNER.

- LANDSCAPE IRRIGATION PLANS SHALL BE PREPARED AND SUBMITTED FOR APPROVAL BY LANDSCAPE IRRIGATOR LICENSED BY THE STATE OF TEXAS.
- PLANS SHALL INCLUDE LOCATION OF ANY SUB-SURFACE CONDUIT AND/OR UTILITIES PROPOSED FOR THE PURPOSES OF LANDSCAPE IRRIGATION.
- LANDSCAPE CONTRACTOR SHALL ENSURE THAT ALL SUB-SURFACE LANDSCAPE CONDUIT AND/OR UTILITIES ARE INSTALLED PRIOR TO ANY PAVEMENT CONSTRUCTION.



07-30-2024

FORENSIC SPACES

LANDSCAPE PLAN

[illegible]

DRAWN BY:
APPROVED BY:
DATE:
DWG NAME:
JOB NO:

C8.0

TCEQ FORM 0600
ATTACHMENT G – INSPECTION, MAINTENANCE, REPAIR, AND RETROFIT PLAN

Batch detention basins may have somewhat higher maintenance requirements than an extended detention basin since they are active stormwater controls. The maintenance activities are identical to those of extended detention basins with the addition of maintenance and inspections of the automatic controller and the valve at the outlet.

Inspections

Inspections should take place a minimum of twice a year. One inspection should take place during wet weather to determine if the basin is meeting the target detention time of 12 hours and a drawdown time of no more than 48 hours. The remaining inspections should occur between storm events so that manual operation of the valve and controller can be verified. The level sensor in the basin should be inspected and any debris or sediment in the area should be removed. The outlet structure and the trash screen should be inspected for signs of clogging. Debris and sediment should be removed from the orifice and outlet(s) as described in previous sections. Debris obstructing the valve should be removed. During each inspection, erosion areas inside and downstream of this BMP should be identified and repaired/revegetated immediately.

Mowing

The basin, basin side-slopes, and embankment of the basin must be mowed to prevent woody growth and control weeds. A mulching mower should be used, or the grass clippings should be caught and removed. Mowing should take place at least twice a year, or more frequently if vegetation exceeds 18 inches in height. More frequent mowing to maintain aesthetic appeal may be necessary in landscaped areas.

Litter and Debris Removal

Litter and debris removal should take place at least twice a year, as part of the periodic mowing operations and inspections. Debris and litter should be removed from the surface of the basin. Particular attention should be paid to floatable debris around the outlet structure. The outlet should be checked for possible clogging or obstructions and any debris removed.

Erosion control

The basin side slopes and embankment all may periodically suffer from slumping and erosion. To correct these problems, corrective action, such as regrading and revegetation, may be necessary. Correction of erosion control should take place whenever required based on the periodic inspections.

Nuisance Control

Standing water or soggy conditions may occur in the basin. Some standing water may occur after a storm event since the valve may close with 2 to 3 inches of water in the basin. Some flow into the basin may also occur between storms due to spring flow and residential water use that

enters the storm sewer system. Twice a year, the facility should be evaluated in terms of nuisance control (insects, weeds, odors, algae, etc.).

Structural Repairs and Replacement

With each inspection, any damage to structural elements of the basin (pipes, concrete drainage structures, retaining walls, etc.) should be identified and repaired immediately. An example of this type of repair can include patching of cracked concrete, sealing of voids, removal of vegetation from cracks and joints. The various inlet/outlet structures in a basin will eventually deteriorate and must be replaced.

Sediment Removal

A properly designed batch detention basin will accumulate quantities of sediment over time. The accumulated sediment can detract from the appearance of the facility and reduce the pollutant removal performance of the facility. The sediment also tends to accumulate near the outlet structure and can interfere with the level sensor operation. Sediment shall be removed from the basin at least every 5 years, when sediment depth exceeds 6 inches, when the sediment interferes with the level sensor or when the basin does not drain within 48 hours. Care should be taken not to compromise the basin lining during maintenance.

Logic Controller

The Logic Controller should be inspected as part of the twice yearly investigations. Verify that the external indicators (active, cycle in progress) are operating properly by turning the controller off and on, and by initiating a cycle by triggering the level sensor in the basin. The valve should be manually opened and closed using the open/close switch to verify valve operation and to assist in inspecting the valve for debris. The solar panel should be inspected and any dust or debris on the panel should be carefully removed. The controller and all other circuitry and wiring should be inspected for signs of corrosion, damage from insects, water leaks, or other damage. At the end of the inspection, the controller should be reset.

Manufacturer Maintenance Information:

Additional maintenance information from Manufacturer's Spec sheet:

8.1 Grease

The SmartPOND valve includes a grease fitting on the valve itself which should be greased twice per year. It is also recommended that a thick, mildly heat-resistant grease be used to avoid grease melting out of the groove in warmer temperatures.

8.2 Flange Bolts

There are 6 bolts connecting the SmartPOND valve's flange to the outfall pipe or fixture. During routine maintenance intervals, these bolts should be checked for tightness. All bolts should be tightened evenly.

8.3 Perforated Riser

Silt, sediment, and debris can build up around the perforated riser with time. An annual inspection of the unit is necessary to ensure that excess debris or sediment has not limited the drainage capacity of the perforated riser. To access the perforated riser for maintenance, lift the trash cage off of the riser, dig out any accumulated sediment, and clear all perforations.

8.4 Trash Cage

As a part of routine maintenance, it is advisable to remove trash and debris that has accumulated on the trash cage and properly dispose.

8.5 Solar Panel

On all inspection visits, it is necessary to confirm that the solar panel is facing south and is well secured. The solar panel is commonly utilized by birds and insects. It is important to keep the surface clean of bird litter, insect nests and debris in order to maintain optimal performance.

8.6 Battery

Over time, battery terminals may corrode. Check annually for corrosion and clean as needed. The battery should be replaced every 4 to 6 years.

8.7 Storage


The SmartPOND valve is shipped in a near-fully assembled configuration and should be stored likewise. The systems are transported and stored on pallets and must remain secured via straps or steel bands to said pallet at all times. The solar panel is not installed at times of transport or storage and should not be installed until the unit is ready to begin operation. The battery may be stored inside the electronics box and if removed, should never be stored on a concrete surface.

General Information

The responsible party for maintenance shall keep records of all inspections, maintenance, repairs, and, if necessary, retrofit activity. All inspections and maintenance activity records shall be maintained and made available upon request to TCEQ officials.

Upon transfer of ownership or maintenance responsibility, the seller must inform the buyer of all requirements of the BMP maintenance. TCEQ must be notified and receive the form "TCEQ-16023 Change in Responsibility for Maintenance on Permanent Best Management Practices and Measures." In addition, TCEQ shall receive a signed, dated copy of this maintenance plan from the new owner.

An amended copy of this document will be provided to the Texas Commission on Environmental Quality within (30) days of any changes in the following information.

Responsible Party for Maintenance:	<u>Forensic Spaces LLC</u>
	<u>Owner - Dr. Satish Chundru</u>
	<u></u>
Address:	<u>12160 W. Parmer Lane Suite 130-108</u>
City, State, Zip:	<u>Cedar Park, TX 78613</u>
Telephone Number:	<u>305-239-8081</u>
Signature of Responsible Party:	<u></u>
Date:	<u>7-16-2024</u>

TCEQ FORM 0600
ATTACHMENT H – PILOT-SCALE FIELD TESTING PLAN

Not Applicable

TCEQ FORM 0600

ATTACHMENT I – MEASURES FOR MINIMIZING SURFACE STREAM CONTAMINATION

Not Applicable

Agent Authorization Form
For Required Signature
Edwards Aquifer Protection Program
Relating to 30 TAC Chapter 213
Effective June 1, 1999

I Satish Chundru
Print Name

President
Title - Owner/President/Other

of Forensic Spaces LLC
Corporation/Partnership/Entity Name

have authorized Landon Cole Allen, P.E.
Print Name of Agent/Engineer

of Akron Consulting LLC
Print Name of Firm

to represent and act on the behalf of the above named Corporation, Partnership, or Entity for the purpose of preparing and submitting this plan application to the Texas Commission on Environmental Quality (TCEQ) for the review and approval consideration of regulated activities.

I also understand that:

1. The applicant is responsible for compliance with 30 Texas Administrative Code Chapter 213 and any condition of the TCEQ's approval letter. The TCEQ is authorized to assess administrative penalties of up to \$10,000 per day per violation.
2. For those submitting an application who are not the property owner, but who have the right to control and possess the property, additional authorization is required from the owner.
3. Application fees are due and payable at the time the application is submitted. The application fee must be sent to the TCEQ cashier or to the appropriate regional office. The application will not be considered until the correct fee is received by the commission.
4. A notarized copy of the Agent Authorization Form must be provided for the person preparing the application, and this form must accompany the completed application.
5. No person shall commence any regulated activity on the Edwards Aquifer Recharge Zone, Contributing Zone or Transition Zone until the appropriate application for the activity has been filed with and approved by the Executive Director.

SIGNATURE PAGE:


Applicant's Signature

7-16-2024
Date

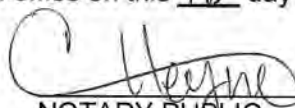
THE STATE OF Texas §

County of Williamson §

BEFORE ME, the undersigned authority, on this day personally appeared Satish Chandra known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that (s)he executed same for the purpose and consideration therein expressed.

GIVEN under my hand and seal of office on this 16th day of July, 2024.




NOTARY PUBLIC
Courtney Heyne
Typed or Printed Name of Notary

MY COMMISSION EXPIRES: 12/16/2025

Application Fee Form

Texas Commission on Environmental Quality

Name of Proposed Regulated Entity: Hill Country Forensics

Regulated Entity Location: 136 Market St. Georgetown, TX 78626

Name of Customer: Dr. Satish Chundru

Contact Person: Satish Chundru

Phone: 305-239-8081

Customer Reference Number (if issued):CN _____

Regulated Entity Reference Number (if issued):RN _____

Austin Regional Office (3373)

☐ Hays

☐ Travis

☒ Williamson

San Antonio Regional Office (3362)

☐ Bexar

☐ Medina

☐ Uvalde

☐ Comal

☐ Kinney

Application fees must be paid by check, certified check, or money order, payable to the **Texas Commission on Environmental Quality**. Your canceled check will serve as your receipt. **This form must be submitted with your fee payment.** This payment is being submitted to:

☒ Austin Regional Office

☐ San Antonio Regional Office

☐ Mailed to: TCEQ - Cashier

☐ Overnight Delivery to: TCEQ - Cashier

Revenues Section

Mail Code 214

P.O. Box 13088

Austin, TX 78711-3088

12100 Park 35 Circle

Building A, 3rd Floor

Austin, TX 78753

(512)239-0357

Site Location (Check All That Apply):

☒ Recharge Zone

☐ Contributing Zone

☐ Transition Zone

<i>Type of Plan</i>	<i>Size</i>	<i>Fee Due</i>
Water Pollution Abatement Plan, Contributing Zone Plan: One Single Family Residential Dwelling	Acres	\$
Water Pollution Abatement Plan, Contributing Zone Plan: Multiple Single Family Residential and Parks	Acres	\$
Water Pollution Abatement Plan, Contributing Zone Plan: Non-residential	2.788 Acres	\$ 4,000
Sewage Collection System	L.F.	\$
Lift Stations without sewer lines	Acres	\$
Underground or Aboveground Storage Tank Facility	Tanks	\$
Piping System(s)(only)	Each	\$
Exception	Each	\$
Extension of Time	Each	\$

Signature: Cole Allen

Date: 2024-07-01

Application Fee Schedule

Texas Commission on Environmental Quality

Edwards Aquifer Protection Program 30 TAC Chapter 213 (effective 05/01/2008)

Water Pollution Abatement Plans and Modifications

Contributing Zone Plans and Modifications

Project	Project Area in Acres	Fee
One Single Family Residential Dwelling	< 5	\$650
Multiple Single Family Residential and Parks	< 5	\$1,500
	5 < 10	\$3,000
	10 < 40	\$4,000
	40 < 100	\$6,500
	100 < 500	\$8,000
	≥ 500	\$10,000
Non-residential (Commercial, industrial, institutional, multi-family residential, schools, and other sites where regulated activities will occur)	< 1	\$3,000
	1 < 5	\$4,000
	5 < 10	\$5,000
	10 < 40	\$6,500
	40 < 100	\$8,000
	≥ 100	\$10,000

Organized Sewage Collection Systems and Modifications

Project	Cost per Linear Foot	Minimum Fee- Maximum Fee
Sewage Collection Systems	\$0.50	\$650 - \$6,500

Underground and Aboveground Storage Tank System Facility Plans and Modifications

Project	Cost per Tank or Piping System	Minimum Fee- Maximum Fee
Underground and Aboveground Storage Tank Facility	\$650	\$650 - \$6,500

Exception Requests

Project	Fee
Exception Request	\$500

Extension of Time Requests

Project	Fee
Extension of Time Request	\$150



TCEQ Core Data Form

For detailed instructions on completing this form, please read the Core Data Form Instructions or call 512-239-5175.

SECTION I: General Information

1. Reason for Submission (If other is checked please describe in space provided.)		
<input checked="" type="checkbox"/> New Permit, Registration or Authorization (Core Data Form should be submitted with the program application.)		
<input type="checkbox"/> Renewal (Core Data Form should be submitted with the renewal form)	<input type="checkbox"/> Other	
2. Customer Reference Number (if issued)	Follow this link to search for CN or RN numbers in Central Registry**	3. Regulated Entity Reference Number (if issued)
CN		RN

SECTION II: Customer Information

4. General Customer Information		5. Effective Date for Customer Information Updates (mm/dd/yyyy)			
<input checked="" type="checkbox"/> New Customer <input type="checkbox"/> Update to Customer Information <input type="checkbox"/> Change in Regulated Entity Ownership					
<input type="checkbox"/> Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)					
<i>The Customer Name submitted here may be updated automatically based on what is current and active with the Texas Secretary of State (SOS) or Texas Comptroller of Public Accounts (CPA).</i>					
6. Customer Legal Name (If an individual, print last name first: eg: Doe, John)				<i>If new Customer, enter previous Customer below:</i>	
Forensic Spaces LLC					
7. TX SOS/CPA Filing Number		8. TX State Tax ID (11 digits)		9. Federal Tax ID (9 digits)	10. DUNS Number (if applicable)
805381233		32093310145		990817781	
11. Type of Customer:		<input checked="" type="checkbox"/> Corporation		<input type="checkbox"/> Individual	Partnership: <input type="checkbox"/> General <input type="checkbox"/> Limited
Government: <input type="checkbox"/> City <input type="checkbox"/> County <input type="checkbox"/> Federal <input type="checkbox"/> Local <input type="checkbox"/> State <input type="checkbox"/> Other		<input type="checkbox"/> Sole Proprietorship		<input type="checkbox"/> Other:	
12. Number of Employees				13. Independently Owned and Operated?	
<input checked="" type="checkbox"/> 0-20 <input type="checkbox"/> 21-100 <input type="checkbox"/> 101-250 <input type="checkbox"/> 251-500 <input type="checkbox"/> 501 and higher				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
14. Customer Role (Proposed or Actual) – as it relates to the Regulated Entity listed on this form. Please check one of the following					
<input checked="" type="checkbox"/> Owner <input type="checkbox"/> Operator <input type="checkbox"/> Owner & Operator <input type="checkbox"/> Other:					
<input type="checkbox"/> Occupational Licensee <input type="checkbox"/> Responsible Party <input type="checkbox"/> VCP/BSA Applicant					
15. Mailing Address:		12160 W Parmer LN			
		Suite 130-108			
City	Cedar Park	State	TX	ZIP	78613
				ZIP + 4	
16. Country Mailing Information (if outside USA)				17. E-Mail Address (if applicable)	
				satchundru@yahoo.com	
18. Telephone Number		19. Extension or Code		20. Fax Number (if applicable)	

SECTION III: Regulated Entity Information

21. General Regulated Entity Information *(If 'New Regulated Entity' is selected, a new permit application is also required.)*

☒ New Regulated Entity ☐ Update to Regulated Entity Name ☐ Update to Regulated Entity Information

The Regulated Entity Name submitted may be updated, in order to meet TCEQ Core Data Standards (removal of organizational endings such as Inc, LP, or LLC).

22. Regulated Entity Name *(Enter name of the site where the regulated action is taking place.)*

Hill Country Forensics

23. Street Address of the Regulated Entity:

(No PO Boxes)

136 Market Street

City

Georgetown

State

TX

ZIP

78626

ZIP + 4

24. County

Williamson

If no Street Address is provided, fields 25-28 are required.

25. Description to Physical Location:

26. Nearest City

State

Nearest ZIP Code

Latitude/Longitude are required and may be added/updated to meet TCEQ Core Data Standards. (Geocoding of the Physical Address may be used to supply coordinates where none have been provided or to gain accuracy).

27. Latitude (N) In Decimal:

28. Longitude (W) In Decimal:

Degrees

Minutes

Seconds

Degrees

Minutes

Seconds

29. Primary SIC Code

30. Secondary SIC Code

31. Primary NAICS Code

32. Secondary NAICS Code

(4 digits)

(4 digits)

(5 or 6 digits)

(5 or 6 digits)

8099

8011

541990

621399

33. What is the Primary Business of this entity? *(Do not repeat the SIC or NAICS description.)*

Forensic Pathology Office and Lab

34. Mailing Address:

136 Market St

City

Georgetown

State

TX

ZIP

78626

ZIP + 4

35. E-Mail Address:

satchundru@yahoo.com

36. Telephone Number

37. Extension or Code

38. Fax Number *(if applicable)*

(305) 239-8081

() -

39. TCEQ Programs and ID Numbers Check all Programs and write in the permits/registration numbers that will be affected by the updates submitted on this form. See the Core Data Form instructions for additional guidance.


<input type="checkbox"/> Dam Safety	<input type="checkbox"/> Districts	<input type="checkbox"/> Edwards Aquifer	<input type="checkbox"/> Emissions Inventory Air	<input type="checkbox"/> Industrial Hazardous Waste
<input type="checkbox"/> Municipal Solid Waste	<input type="checkbox"/> New Source Review Air	<input type="checkbox"/> OSSF	<input type="checkbox"/> Petroleum Storage Tank	<input type="checkbox"/> PWS
<input type="checkbox"/> Sludge	<input type="checkbox"/> Storm Water	<input type="checkbox"/> Title V Air	<input type="checkbox"/> Tires	<input type="checkbox"/> Used Oil
<input type="checkbox"/> Voluntary Cleanup	<input type="checkbox"/> Wastewater	<input type="checkbox"/> Wastewater Agriculture	<input type="checkbox"/> Water Rights	<input type="checkbox"/> Other:

SECTION IV: Preparer Information

40. Name:	Landon Cole Allen	41. Title:	Civil Engineer
42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address
(903) 452-0637		() -	colea@akron-consulting.com

SECTION V: Authorized Signature

46. By my signature below, I certify, to the best of my knowledge, that the information provided in this form is true and complete, and that I have signature authority to submit this form on behalf of the entity specified in Section II, Field 6 and/or as required for the updates to the ID numbers identified in field 39.

Company:	Akron Consulting LLC	Job Title:	Project Engineer
Name (In Print):	Landon Cole Allen	Phone:	(903) 452-0637
Signature:		Date:	07-16-2024